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THE CHEMIST AND DRUGGIST

MARCH 10, 1934

The



# CHEMIST AND DRUGGIST

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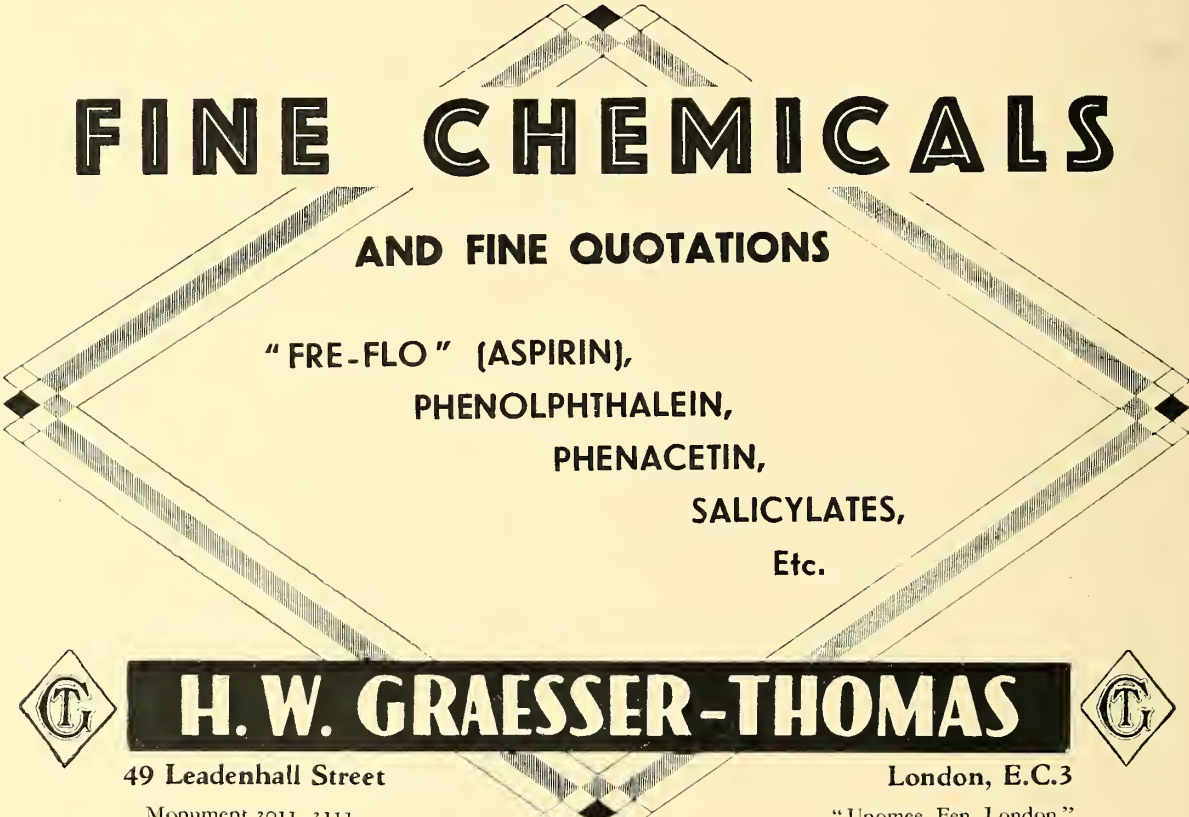
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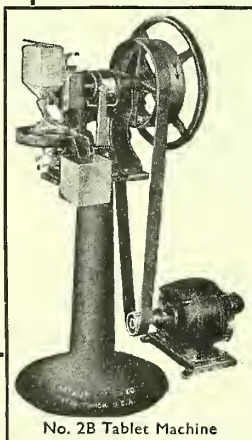
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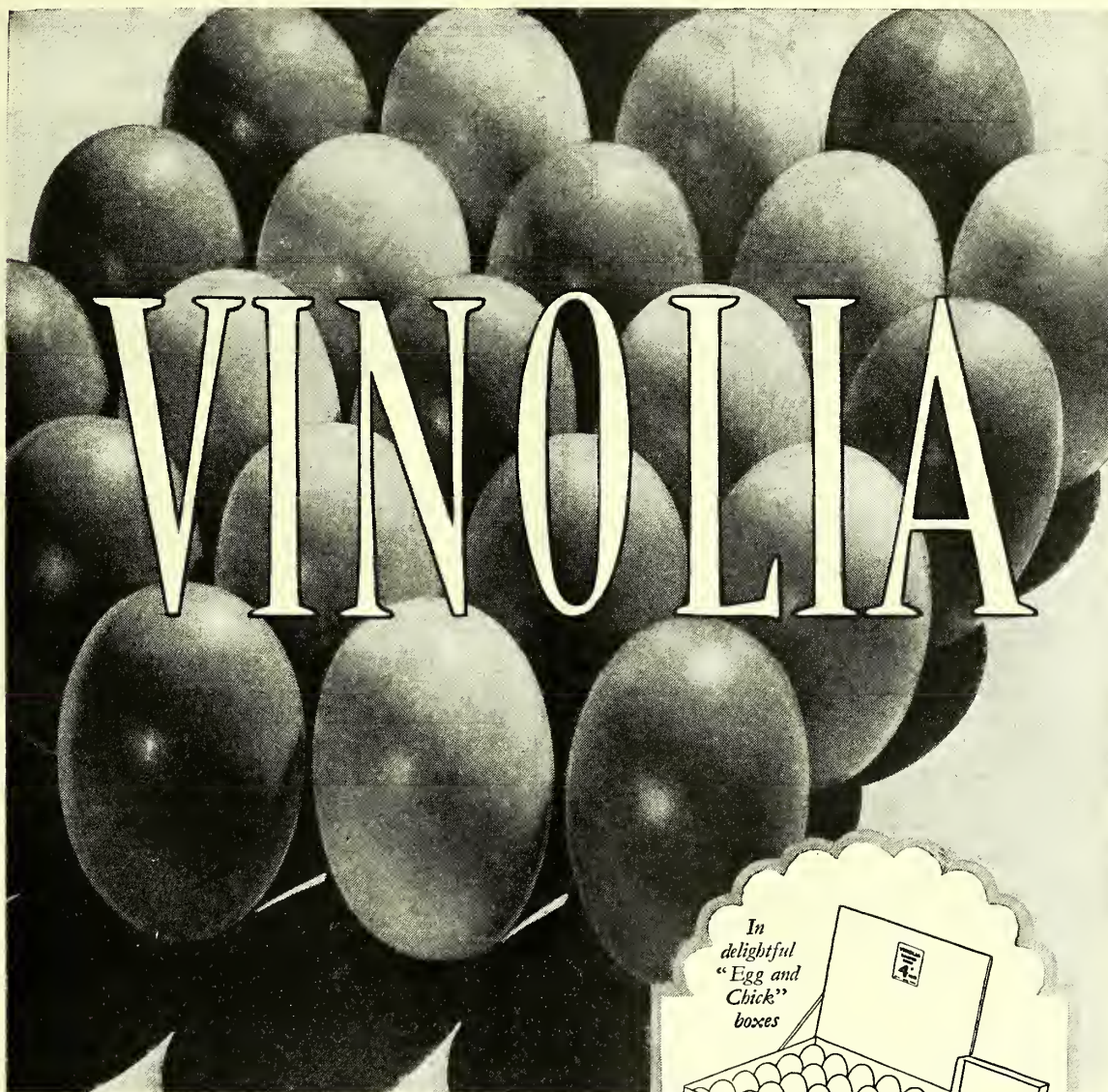
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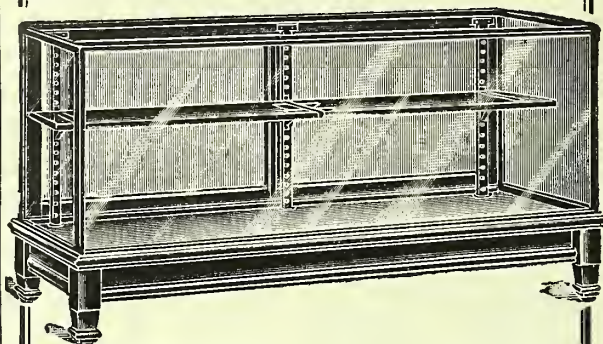
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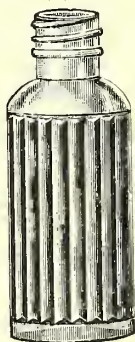
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2/9	3/3	3/9	doz.
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2/6	3/-	3/6	doz.

**THE IDEAL  
IODINE  
CONTAINER**

**WITH GLASS QUILL BRUSH**

Mounted direct into Top.

(Patent applied for)

1/2	1	2	oz.
3/6	3/9	4/3	doz.
(3 doz. Carriage Paid.)			

**M. J. FECHER, LTD.,**  
10 Dod Street, London, E.14

Phone: EAST 3228



## BUTTERFLY BRAND ADHESIVES

We specialise in Adhesives  
for every purpose.  
Your enquiries will be appreciated

**SAMUEL JONES**  
& CO., LTD.  
BRIDEWELL PLACE, LONDON, E.C.4.  
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# MAW'S CARTONED SURGICAL DRESSINGS

## Guaranteed Quality —Perfectly Packed

Sealed—Hygienic—Strong and attractive in appearance, Maw's Cartoned Dressings are unquestionably the best on the market.

Cartoned Dressings will ultimately displace all other forms of Dressings Packs. The public prefer this higher conception of Dressings presentation and are willing to pay the slight extra cost.

Stock and sell Maw's Cartoned Dressings at every opportunity. They will increase your profit and prestige.

**Concentrate on Maw's Cartoned Dressings for 1934**



## S. MAW, SON & SONS, LTD.

7-12 Aldersgate St., LONDON, E.C.1

Telephone :  
NATIONAL 2468

Telegrams :  
ELEVEN, CENT, LONDON



MONTH-BY-MONTH SUGGESTIONS FOR  
BIGGER BOB MARTIN SALES

# RAGGED COATS AND PRIDE OF OWNERSHIP ARE POWERFUL SALES PRODUCING POINTS

—and don't forget, March is a good month for CLEANSFUR

**P**HARMACISTS not using a Bob Martin Display during March will certainly miss some big profits from dog-owners who are ready to buy, and only need to be reminded *where* to buy.



The fact that most dogs' coats are ragged and shabby at this time of the year is being emphasised in the Bob Martin Press advertising, and Pride of Ownership is the appeal—a powerful appeal, too. The little mental jerk given by a Bob Martin

Display means a ready sale—and as you can have Bob Martin display material to fill a corner or a whole window simply by applying to Bob Martins, Southport, there is no reason why you should miss profits to be made from Bob Martin's Condition Powders now.

## OWNERS WON'T WASH DOGS IN COLD WEATHER

Dogs must be kept clean, and a small Cleansfur Display just now is certain to bring sales from owners who are looking for a safe and easy way of keeping their dogs clean and smart without running the risk of washing them this cold



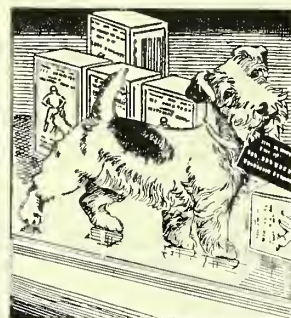
weather. Show a good dog brush on the counter beside the Cleansfur packets—there is always the possibility of a double sale.

## CUTOUT DOGS MORE POPULAR THAN EVER

Pharmacists everywhere declare that the Bob Martin Cutouts are not only the most popular display for *any* line they have ever had in their pharmacies, but they are the best attention-getters, too.

Try the effect of displaying two or three of the latest cutouts (*illustrated here*) in your Pharmacy at the same time. One on the counter, one on a shelf and one in a window and see how your customers respond to this cheery note.

Any number of these cutouts will be sent gladly on receipt of a postcard addressed to Dept. D, Bob Martin Ltd., Southport. Just say "Please send me (number you require) Sealyham Cutouts."



## FOREIGN BUYERS—PLEASE NOTE.

The Bob Martin preparations sold in Great Britain are packed for the home market only, and the packets do not comply with Customs' regulations for foreign countries. Please address any enquiries regarding export to Bob Martin (Export) Ltd., Southport, England.

**DISPLAY MORE . . . sell more  
BOB MARTIN'S CONDITION POWDERS**



# LIVERPOOL VIRUS



**WE NOT ONLY STATE DEFINITELY**  
but . . .

## We Guarantee

That **LIVERPOOL VIRUS** is not a poison,  
and is absolutely harmless to all forms  
of life other than to Rats, Mice and Voles



Rats and Mice which take the bait of **LIVERPOOL VIRUS** are forced into the open fields in search of running water, where they die and shrivel up without smell. Thus are avoided the disgust and dangers of disease when death occurs under the floorboards, as is so often the case when poisons are used.

**ALL OUR ADVERTISEMENTS REFER THE PUBLIC TO THE CHEMIST.**

Our prices to you as per our Drug List show a very good profit on this nationally advertised and scientific product.

# **EVANS SONS LESCHER & WEBB Ltd.**

LIVERPOOL

LONDON

DUBLIN



# Dr Page-Barker's SCURF & DANDRUFF LOTION

**THE GUARANTEED SPECIFIC**

A cast-iron Guarantee with every Bottle

18/- per dozen. 2/6 P.A.T.A.

Larger Sizes—28/- and 36/- per dozen

With every order for three dozen you get a bonus of three 2/6 bottles and smart showcards.

**Dr. PAGE-BARKER'S SCURF and DANDRUFF POMADE**

Specially prepared for DRY SCALPS.  
1/6 size 10/- doz. 2/6 size 15/- per doz.

WRITE FOR EXPORT TERMS

## THOS. CHRISTY & CO.,

4-12 OLD SWAN LANE, LONDON, E.C.4



**The**  
**PERFECT PAIR**  
for economical and  
luxurious shaving

**"Eclipse"**  
RED RING  
**RAZOR**  
& SUPER RAZOR BLADES

MAGNETIC PICK-UP

THE BEST IN  
THE WORLD

Sole  
Manufacturers

**JAMES NEILL & CO. (SHEFFIELD) LTD.**  
£100

## STUPENDOUS SUCCESS OF THE NEW "OCEAN MULTIFIT"



The ONLY Blade  
which fits practically ALL  
Double-Edge Razor Holders  
COST **8/-** GROSS.  
Packed in  
dozens and  
half-dozens.

NO DEALER CAN AFFORD  
to overlook this biggest of all  
"Ocean" Seller—already sales  
are leaping ahead, far above the  
150 Million Sales of the original  
"Ocean" Blades.

A BRITISH BLADE, made from first  
quality steel by new process giving  
ultra-keen edge. Be the first in your  
district to stock it.

All Leading Wholesalers carry stocks  
Display matter FREE. For Direct  
Supplies send cheque to address below:—

**"OCEAN" RAZOR BLADES (GT. BRITAIN) LTD.**  
Sales Dept.: 1-6 Bridgewater Place, Aldersgate St., LONDON, E.C.1

STOCK ALSO  
**"THE CONQUEROR"**  
—the finest 3-HOLE PENNY  
Blade—5/6 Gross.

## OVER FIVE THOUSAND DENTISTS

are now using, and recom-  
mending their patients to use

## ORALITE DENTURE SOAP

The most effective cleanser and steriliser known  
for NATURAL TEETH, ARTIFICIAL TEETH  
— and the GUMS —

A national advertising campaign is now in progress  
and we urge you to write at once for particulars  
of our attractive "First Order Terms."

**THE ORALITE CO., LTD., THORNTON, Blackpool, Lancs.**



**THIS IS the**  
**SUN TAN OIL**

You will be asked for—Hay's, the genuine product. Provides that delightful tanning so much admired.

**REDUCED PRICES**  
 6/3 per doz.  
 3/6 per doz.

3 oz. flasks.  
 1 oz. bottles.  
 Ample show material Free.

Get your stock in now for Easter.  
 new customers kindly give trade references thus obviating any delay in despatching the goods.

**HAY'S**

69/- per gross.  
 39/- per gross.  
 Prompt delivery.

When ordering will thus obviating



Your customers will look for this label.

A copy of our March Price List sent upon application to Dept. 43, William Hay Limited, Manufacturing Chemists, Hull.

3 OZ. CELLOPHANE WRAPPED

This advertisement does not apply to I.F.S.

**9/-100** **Wanie** **8/-GROSS**  
**AUTO TYPE** **Wanie**  
**9/-100** **Registered**

**WANIE**  
*The Blade for Every Razor!*

Send for Samples to Dept. C D.  
**LONDON & PROVINCIAL FACTORS, LTD.**  
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 and at  
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**MADE IN ENGLAND** **THE FAMOUS TIM** **REGD** **RAZOR BLADE** **HONED**

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There's a huge market for Snowfire Cream—all satisfied users recommend this popular Vanishing Cream to their friends and strong advertising increases the demand still further. Get **your** share. Stock Snowfire Cream and display it. That's all you need do—it sells itself. And how it pushes up each month's figures!

Handbag Containers, 3d. Dainty Tubes, 6d. Retail

**Snowfire**  
 vanishing  
**Cream**



Manufactured by  
**F. W. HAMPSHIRE & CO. LTD.**  
 Sunnysdale, Derby.



*All for*  *Beauty*



*'Years ago....  
....years ahead'*

For longer than some of us can remember the Harriet Hubbard Ayer preparations have been sold to women of beauty and distinction.

They will continue to sell, whatever new competition enters the field. The Harriet Hubbard Ayer preparations are so excellent, so simple to use, so immediate in results that each new generation of women — learning from their predecessors — has implicit faith in them.

Only your customers' justified faith will bring them back to you again and again. That is why Harriet Hubbard Ayer succeeds.

**HARRIET HUBBARD AYER**  
LIMITED  
**BEAUTY PREPARATIONS**

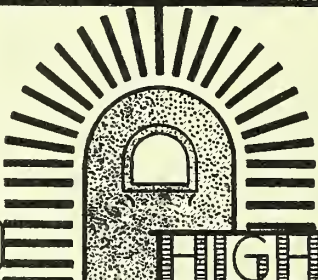
130 Regent Street, London, W.1

NEW YORK

PARIS

MONTREAL

**PHARMACEUTICAL**

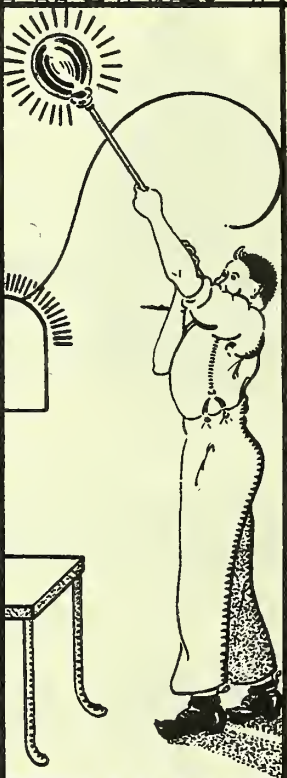
**W**  **HIGHEST**

**DISPENSING**  
**BOTTLES**  
**CHEMISTS**  
**ROUNDS**  
**FEEDING**  
**BOTTLES**  
**SOXHLET**  
**BOTTLES**  
**EYEBATHS**

**SPRINKLER**  
**BOTTLES**  
**OPAL AND**  
**FROSTED**  
**GLASSWARE**

**QUALITY**

**GLASSWARE**



K. GRAHAM

DESIGNERS & MANUFACTURERS  
OF GLASSWARE FOR PERFUMES  
COSMETICS AND BATH SALTS

**WOOD BROS. GLASS CO**  
**LIMITED**

(ESTABLISHED 1828)

**BARNSELY . . . ENGLAND**



**Important**  
**PRICE**  
**REDUCTION**  
 on  
*Camilatone*  
**SHAMPOOS IN BULK**



When buying EXTRA SPECIAL APPLICATION  
look for the BUFF Label.

**1 lb. 7 lb. & 14 lb. Tins**  
**for Saloon Use**



When buying SPECIAL Shampoos look for the  
PURPLE Label.

THE **only** beauty Shampoo eminently suitable for use in connection with permanent waving or permanently waved hair. The **only** Shampoo which, in place of bleaching, pigments the hair, thus rendering it bright and lustrous without harm.

**PRICE REDUCTIONS**

	Old Price		New Price	
<b>No. 9 SPECIAL</b>	1-lb.	5/6	Now reduced to	4/6 lb.
(illustrated at left)	7-lbs.	5/3	" "	4/3 lb.
	14-lbs.	5/-	" "	4/- lb.
<b>No. 10 EX-SPECIAL</b>				
(illustrated top right)	1-lb.	5/6	" "	4/6 lb.
	7-lbs.	5/3	" "	4/3 lb.
	14-lbs.	5/-	" "	4/- lb.
<b>No. 10a WHITE SHAMPOO</b>				
	1-lb.	5/6	" "	4/6 lb.

This reduction in price, applicable only in U.K. and Northern Ireland, will NOT be retrospective, but will apply to orders dated on and after Monday, March 5th, 1934. All orders will be subject to discounts as previously.



# KORMEOL BRAND FAVOURABLE TRADE TERMS AND GENEROUS BONUS WILL INCREASE YOUR TURNOVER AND PROFITS

"KORMEOL" is a product for which there is a large popular demand—provided the appeal and prices to the public are right. Ours ARE right. It will pay you to stock "KORMEOL." Ask for details of our bonus offers without delay.



**GENEROUS  
BONUS  
OFFER  
PRICES  
1'3, 3'-5'**

BECAUSE IT IS—

Sold only to chemists.

Consistently advertised.

Provided with live show matter.

Supported by full co-operation of  
manufacturers.

*There will be a representative in your district*

**GET INTO TOUCH TO-DAY**

**EROGA PRODUCTS, 226 Bishopsgate, London, E.C.2**



No. CDF 4454

Illuminated Interchangeable Sign, size 13" x 8 1/2". Blue metal frame, complete with 200 letters and figures—wired with holder and flex. Ready for immediate use. Price quoted does not include lamp.

Full illustrated list of Shopfittings No. CD 1360 free on request.

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City Showrooms: 65 Fore St., E.C.

**7'6**

## THE SOUTH OF ENGLAND COLLEGE OF PHARMACY

186 Clapham Road, LONDON, S.W.9.

Principal—H. LUCAS, Ph.C., F.C.S.

assisted by a fully qualified and efficient staff.

### EXAMINATION RESULTS, SESSION 1932-3.

During the past Session (Jany.-Octr.) 60 students passed from this College. Part I., 22; Part II., 38.

New Courses start early in October; Benches are now being booked.

Revision Courses start on April 5th and August 6th.

FOR ALL PARTICULARS, PROSPECTUS, ETC.,  
APPLY THE PRINCIPAL.

## Extermino

(REGD. TRADE  
MARK)

**RAT EXTERMINATOR**

Supersedes all Virus. Successfully used all over the World. In Tins, 6d., 1/-, 2/6, 5/-, 10/-. Write for Trade Terms, 80-100% Profit.

Inventors and Manufacturers:

**THE EXTERMINO CHEMICAL CO., LTD.**

(D. THOMAS JONES, M.P.S., Man. Dtr.)

WOTTON-UNDER-EDGE, GLOS.

(Est. in Dundee 1900)

## BATTLE'S VERMIN KILLER

Of all Patent Medicine  
Houses at 3/-, 5/-  
and 9/- per dozen.

In packets at 5d.,  
9d. and 1/3 each.  
(P.A.T.A.)

The sure destructive agent which may be  
confidently recommended by Chemists for  
quick clearance of rats and mice.  
(Users' testimonials on request.)

Prepared only by

**J. C. M. BATTLE, Ph.C., LINCOLN**



# NATIONALLY ADVERTISED

AND OFFERING YOU

# 30%

**PROFIT ON TURNOVER**

# LINGFORDS

SPARKLING-IODIZED

# LIVER SALT



Proprietors :  
JOSEPH LINGFORD & SON,  
BISHOP AUCKLAND, CO. DURHAM  
Manufacturers of Quality Powders since 1861.  
L.S.T.3

Sole Distributors to the Pharmaceutical Trade :  
MESSRS. FASSETT & JOHNSON, LTD., 86, CLERKENWELL ROAD, E.C.1.

TAPERED, PYRAMID, DOMED AND  
FLANGE **CORKS**  
COMPOSITION AND BAKELITE  
**STOPPERS**

THE MOST COMPETITIVE MANUFACTURERS IN  
THIS COUNTRY

**MUNDET CORK PRODUCTS, LTD.**  
12/18 ABBEY ST., TOWER BRIDGE ROAD, S.E.1

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Telephone :  
HOP 2043-4-5

**NOW BRITISH MADE**

**WAGNER'S DRY BOTTLE CAPS**  
BEST IN QUALITY & APPEARANCE



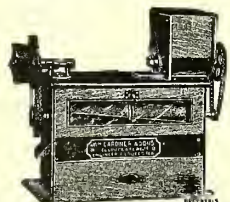
**R. V. WAGNER**

33 BROOKE ST., LONDON, E.C.1. Tel. Holborn 5090

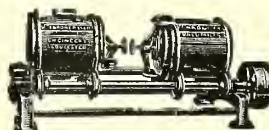
# GRINDING SIFTING MIXING



Patent "Rapid" Mixer.



Patent "Rapid" Sifter.



Gardner Ball Crushing Mill.

for Chemical purposes must be rapid, super-fine, of laboratory accuracy, and absolutely consistent.

Gardner machines perform all these operations in the most efficient way.

They are economical and efficient; a high standard is maintained in the quality and quantity of their output.

Details and Catalogue of  
all Gardner plants from

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& SONS (Gloucester)  
LTD.**

**BRISTOL ROAD, GLOUCESTER**

Telephone : 2368 (8 Lines).  
Telegrams : "Gardner, Gloucester."  
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**LIMITED**

## *FOR Service*

**T**HE distributors with the largest resources where modern transport in every form is brought into use. It is to the interest of all Chemists to take advantage of this **PERFECT SERVICE**

Let a representative call and open up with you!

A postcard sent to the Head Office will bring him along.

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Phone :  
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**Branches :**

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<b>CARDIFF</b>	-	-	Tredegar House, Hope Street
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<b>NEWCASTLE-ON-TYNE</b>	-	-	Old Infirmary Buildings
<b>PLYMOUTH</b>	-	-	32/3 Kinterbury Street
<b>IRISH FREE STATE</b>	-	-	Grand Canal Quay, Dublin, C.6



The Evolution  
of the

# CATARRH PASTILLE

Assure protection against infectious diseases  
**POTTER'S CATARRH PASTILLES**  
CURES COLIC, COLDS, HAY FEVER, BRONCHITIS.  
Allow to dissolve slowly in the mouth breathing through the nose to allow the healing properties to act directly upon the respiratory organs.

P.A.T.A. 1/3 11/- doz.  
IN BOXES OF 1/2 DOZENS

1. Making the Pastilles.
2. "Running out."
3. Separating Pastilles from the starch.
4. Packing in Tins.

## POTTER & CLARKE LTD.

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Telephone: Bishopsgate 4761 (5 lines)      Telegrams: "Harehound, Phone, London"

AND AT 77 DANTZIC STREET, MANCHESTER, 4.  
Telephone: Blackfriars 8734.      Telegrams: "Harehound, Manchester"



# SASSO OLIVE OIL

*The Standard of Quality*



## YOUR OLIVE OIL SALES

**SASSO OLIVE OIL** has the largest sale of any brand of Olive Oil in the world. The reason for this is because it is of unsurpassed quality and perfectly packed.

*Write for a new season's  
sample and price list.*

*Producers :*

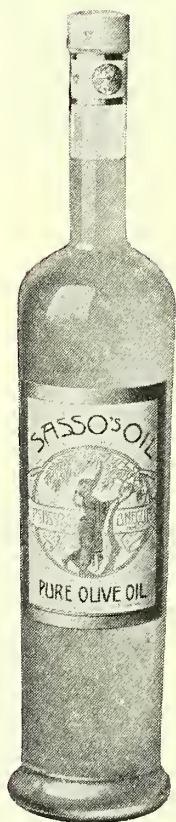
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**'TANNAFAX'** BRAND

**TANNIC ACID JELLY**

*A preparation  
of unusual  
convenience*

Always fresh and ready for use ;  
in consequence, superior to tannic  
acid solutions. Non-greasy.  
Applied direct from the tube.  
Its water-soluble, antiseptic base  
is easily bathed off when frequent  
dressings are desirable.

'TANNAFAX' is attracting the  
attention of physicians. It also  
finds a ready sale amongst motorists,  
engineers, metal-workers, etc.

**'TANNAFAX'**

Trade Mark

Brand

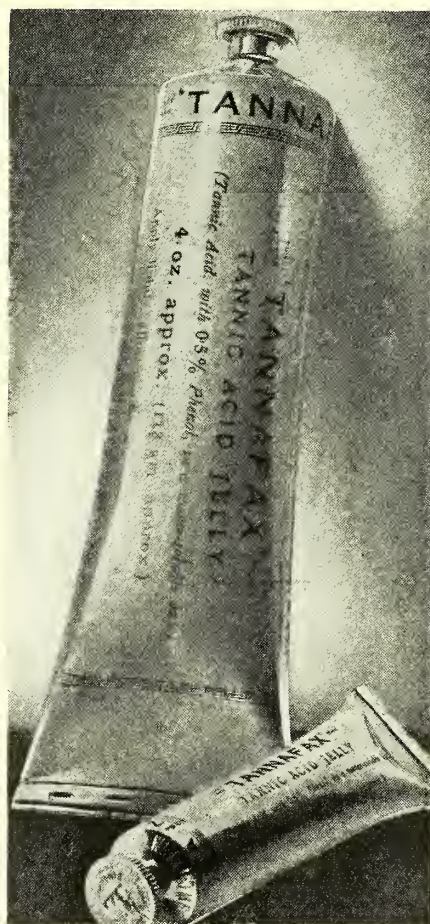
**TANNIC ACID JELLY**

(Tannic Acid, with 0.5 per cent. phenol, in  
a water-soluble base)

Tubes containing 20 grammes (approx.), 8/- per doz.

" " 4 ounces (approx.), 24/6 per doz.

London Prices to the Trade (Subject)



*Reduced facsimiles*



G 1788

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For **HUSKINESS - SORE THROAT &**

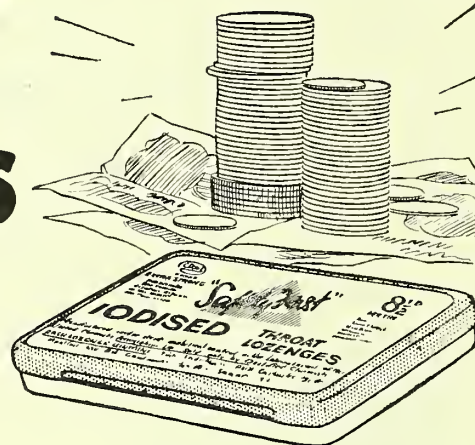


*"Safety First"*

# IODISED THROAT LOZENGES

ARE  
INDISPENSABLE

**QUICK!  
SALES!**



Terms:

**8½d. SIZE**

Costs . . **4/6 doz.**

**12 doz. 4/3**



**1/3 SIZE**

Costs . . **7/6 doz.**

**3 doz. 7/-**

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**UNITED CHEMISTS' ASSOCIATION, LTD.**

Manufacturing Chemists,

**CHELTENHAM, and 4 and 6 KEITH GROVE, LONDON, W.12.**

Phone: Cheltenham 3021.

Phone, London: Shepherd's Bush 3437/8.

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# THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy, the Drug, Chemical and Allied Trades

*The official organ of The Pharmaceutical Society of Ireland,  
The Pharmaceutical Society of Northern Ireland,  
The Chemists' and Druggists' Society of Ireland, and of  
other Chemists' Societies in Overseas Dominions*

PUBLISHED AT  
28 ESSEX STREET, STRAND, LONDON, W.C.2

Telegrams: "Chemicus, Estrand, London" Telephone: Central 6565 (8 lines)

## BRANCH OFFICES

4 CANNON STREET, MANCHESTER (TEL.: BLACKFRIARS 3052)

19 WATERLOO STREET, GLASGOW (TEL.: CENTRAL 2329)

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54 FOSTER'S BUILDINGS, HIGH STREET, SHEFFIELD (TEL.: 22458)

372 FLINDERS LANE, MELBOURNE, AUSTRALIA

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## News of the Week

### Import Duties: Aluminium Oxide

The Import Duties Advisory Committee give notice of the following application:—

For the imposition of a minimum additional duty of 10 per cent. on aluminium oxide, hydrated.

Any representations which interested parties may desire to make in regard to this application should be addressed in writing to the Secretary, Import Duties Advisory Committee, Caxton House (West Block), Tothill Street, Westminster, London, S.W.1, not later than March 29, 1934.

### Additional Import Duties

Under the Additional Import Duties (No. 4) Order the duties on foreign goods of the following classes have been increased as shown: di-sodium phosphate, £1 15s. per ton; tri-sodium phosphate, £2 10s. per ton.

### Pharmacopœia Commission

The British Pharmacopœia which was published in September 1932 has been on the whole favourably received, but has necessarily led to considerable criticism of detail. The new Pharmacopœia Commission, which took office in October 1933, are now engaged in dealing with these criticisms, in investigating disputed points, and in collecting the material required for revision. Expert subcommittees have been formed to deal with different aspects of the work.

It is proposed that a complete revision of the Pharmacopœia shall be made during the next seven years and that a new Pharmacopœia shall be issued in 1941. It is

proposed also to publish an Addendum in 1936. This Addendum will contain any alterations in the standards and tests of the Pharmacopœia which experience shall have shown to be advisable, and will include descriptions of, and standards for, new drugs. The Pharmacopœia Commission are desirous of the opportunity of considering comments upon the standards and tests for the substances included in the Pharmacopœia, and they invite manufacturers, pharmacists and others to send to the Secretary of the Pharmacopœia Commission, 44 Hallam Street, W.1, any representations which they wish the Commission to consider.

### Inquests.

While engaged as a bottler at the premises of Willows, Francis, Butler & Thompson, Ltd., manufacturing chemists, Shacklewell Lane, London, E., Arthur Johnson was found unconscious; his death occurred in hospital from corrosive acid poisoning. The coroner recorded a verdict of "Suicide whilst of unsound mind" at the inquest on March 6.

At Liverpool, on March 6, the death of Mrs. Maria Welsh, Anfield, was the subject of an inquiry. Dr. Robert McKenna, dermatologist at Stanley Hospital, said that when he examined Mrs. Welsh in September 1933 the condition of her skin suggested that she was suffering from fur dermatitis, caused probably by a dye. Though her skin condition improved her general health became worse, and she died from heart failure and dropsy of the lungs. The Coroner: Do you suggest that that condition was brought about by the skin trouble?—That question is difficult to answer because fur dermatitis has

previously never been known to end fatally. I think the heart was in some way poisoned. I am of opinion that the suffering caused by the skin disease accelerated her death. I do not think that dermatitis was sufficiently severe at any time to cause her death. Professor Dilling, Professor of Pharmacology at Liverpool University, said that he had examined the fur. Two dyes had been used, paraphenylenediamine and paraminophenol, both of which could cause dermatitis. The jury returned a "Misadventure" verdict.

### Birmingham

Mr. F. G. D. Chalmers, M.A., D.Sc., F.I.C., Temple Street, Birmingham, has been appointed public analyst for Wolverhampton.

A meeting of the Birmingham Chemists' Cricket Club will be held at the Crown Hotel, Corporation Street, on March 12 at 9.15 p.m.

An "outsized" cake of soap at the National Trades Exhibition at the Bingley Hall, opened on March 5, is the subject of a weight-guessing competition in aid of the Birmingham Hospital Saturday Fund.

### Liverpool

Mr. Thomas L. Bowyer, A.I.C., chemist and druggist, of the staff of Ayrton, Saunders & Co., Ltd., manufacturing chemists, has been appointed lecturer in pharmaceutical chemistry at Birmingham Central Technical College.

It has been decided to establish in Liverpool a branch of the Wholesale Photo Finishers' Association. There is a potential membership of about sixty in Merseyside. Mr. C. V. Abbott (United Photographers, Ltd.) has accepted the office of chairman; Mr. F. H. Manley (New Brighton) is secretary; and Messrs. J. Allen Jones, Todd, Blundell and Connelly constitute the committee. The branch has decided to operate the P.D.A. price list forthwith.

Some interesting observations on "Safety Precautions in Chemical Manufacture" were made by Mr. T. J. Dixon, B.Sc., of Imperial Chemical Industries, Ltd., in the course of a paper on this subject before a joint meeting of the Liverpool section and the Chemical Engineering group of the Society of Chemical Industry at Liverpool University. Mr. E. Gabriel Jones (deputy city analyst and chairman of the section) presided. In the course of discussion Mr. J. Davidson Pratt (general manager of the Association of British Chemical Manufacturers) emphasised the necessity for treating every new chemical product as dangerous to health until it had been proved to be safe.

### Sheffield

Mr. John Austen, Ph.C., gave an address on "Ancient Medicines" at a recent supper at the Y.M.C.A.

The next "informal dinner" of the Branch of the Pharmaceutical Society is to be held on March 14, when lady members of the Branch are to be specially invited to attend.—The candidature of Mr. H. Antcliffe is to be strongly supported at the forthcoming Council election.

### Miscellaneous

**POISON LICENCE APPLICATION.**—F. Finn & Sons, Ltd., Canterbury, have applied to the City Council for a licence to sell agricultural and horticultural poisons.

**BURGLARY.**—The pharmacy of Mr. D. H. Moore, chemist and druggist, Ashcombe Road, Weston-super-Mare, was broken into recently and money was stolen.

**FACTORY EXTENSION.**—A building is in course of erection at the rear of the premises of Robinson & Sons, Ltd., at Brampton, Chesterfield, for use as a mill for the manufacture of a special paper. It will have a ground-floor area of 18,500 sq. ft.

**CAREFUL DRIVERS.**—Certificates and badges of the "Order of the Road" were presented, on March 3, to eighteen drivers employed by Parkinsons, Ltd., manufacturing chemists, Burnley, who during the past three years have driven 10,000 miles without an accident.

## Irish Notes

### "The Chemist and Druggist" Coloured Supplement

Through the courtesy of the President and Council of the Pharmaceutical Society of Northern Ireland, we have pleasure in announcing that in future supplies of the Coloured Supplement of THE CHEMIST AND DRUGGIST will be available for distribution every week at the offices of the Society, University Street, Belfast.

### Brevities

A coroner's jury at an inquest at the Meath Hospital, Dublin, found that the deceased, Harold Camestry, died from bronchial pneumonia accelerated by the self-administration of acetic acid by misadventure. The coroner said it would be wise for people to make sure that only diluted acetic acid is used in food dressing.

The registrar of the Pharmaceutical Society of Ireland informs us that owing to a regrettable clerical error a change of address of Mr. Michael MacManus, formerly of 5 Dolphin's Barn, Dublin, to c/o Messrs. Lester's Pharmacy, Cork, was attributed to Mr. M. P. McManus M.P.S.I., 27 Washington Street, Cork, and that the change of address of Mr. P. J. Walsh, from Thomastown to Mountmellick, was in error attributed to Mr. P. J. Walsh, M.P.S.I., Castle Street, Tralee.

### Belfast

Mr. Robert J. Groves has been appointed vice-chairman of the Gas Committee of Belfast Corporation.

The Education Committee of Belfast Corporation has accepted the tender of Fred Storey, Ltd., Belfast, for the supply of medical requisites for the Department. The tender of W. Doig & Co., wholesale druggists, for the supply of soaps and soda was also accepted.

Councillor T. L. Cole, Ph.C., chairman of the Maternity and Child Welfare Committee of Belfast Corporation, has been appointed to represent the Corporation at the annual Congress of the Royal Sanitary Institute in Bristol. He has also been appointed to represent the Corporation at the National Conference on Maternity and Child Welfare at Birmingham.

The second of the social functions under the auspices of the Junior Pharmaceutical Section, Belfast, was held, on March 1, in the rooms of the Pharmaceutical Society of Northern Ireland. It took the form of a dance and was attended by about eighty guests, young people who spent a most enjoyable evening. Mr. S. H. Forrest, a member of the Council, was present, and Mr. Fred Storey, one of the ex-presidents, also attended.

At a meeting of the Senate of Queen's University, Belfast, on March 1, eloquent tributes were paid to the memory of the late Sir William Whittla, L.P.S.I., senior Pro-Chancellor, by the chairman, Professor R. M. Henry, Colonel A. B. Mitchell, the Right Hon. H. B. W. Armstrong, Colonel R. J. Howard, and Colonel T. Sinclair. The Senate, the members standing in silence, adopted a resolution recording its high appreciation of Sir William's long and valued service to the University and to the community, its deep gratitude for his munificent generosity to the University, and its sincere sympathy with his relatives.

At Belfast Corporation monthly meeting on March 1 the minutes of the Tuberculosis Committee contained a further reference to the minute of December 6 last agreeing to the National Health Insurance system of pricing prescriptions and remunerating chemists being substituted for the system at present in operation in respect of non-insured tuberculous patients, and to the accounts being transmitted each month to the Scottish Pricing Bureau. The chief tuberculosis officer read a letter from the superintendent and clerk of the Drug Accounts Committee (Scotland), stating that his Committee was willing to undertake this work and had the approval of the Department of Health, provided that the prescriptions conform in all respects with National Health Insurance prescriptions. This was approved.



# Surgical Spirit Regulations

THE following notice is being issued by the Commissioners of Customs and Excise to manufacturing chemists, dispensing chemists and others concerned.

## Surgical Spirit

### ALTERATION IN APPROVED FORMULAS

1. *All existing formulas cease to be permissible.*—The Commissioners of Customs and Excise hereby give notice that as from and including March 15, 1934, all existing approved formulas for surgical spirit are withdrawn. The use of industrial methylated spirits in making a preparation to any of the formulas in question will be a breach of the law and of the Methylated Spirits Regulations involving liability to prosecution and penalties (see paragraph 4 below as to the sale of existing stocks).

This applies equally in respect of

(a) formulas covered by the Schedule to the Methylated Spirits (Amendment) Regulations, 1932 (superseding the Second Schedule to the Methylated Spirits Regulations, 1930); and

(b) formulas which have been approved at any time on the application of individual traders or firms.

2. *New approved formulas.*—As from March 15, 1934, the following two new formulas for surgical spirit are approved:—

I				
Castor oil	...	...	2½ %	(240 minims)
Methyl salicylate	...	...	1 %	(48 minims)
Diethyl phthalate	...	...	2 %	(192 minims)
Industrial methylated spirit	...	to 100		(20 fluid ounces)
II				
Castor oil	...	...	2½ %	(264 minims)
Mineral naphtha	...	...	1 %	(24 minims)
Diethyl phthalate	...	...	2 %	(192 minims)
Industrial methylated spirit	...	to 100		(20 fluid ounces)

It is to be noted that these two formulas are now the only ones approved for surgical spirit. They must be

strictly adhered to and no modification of them may be made.

3. *Existing authorities for surgical spirit automatically cover the new formulas.*—All persons who on March 15, 1934, hold an authority for the use of industrial methylated spirits in making surgical spirit (whether to formulas covered by the Schedule to the Methylated Spirits Regulations or to individual formulas) are hereby authorised to use either or both of the new formulas and no fresh application from them will be necessary.

4. *Existing stocks made to old formulas may be sold off.*—Existing stocks made to any of the old formulas may be sold off whether they are held by manufacturers, by wholesalers or by retailers.

5. *Containers must be labelled "Not to be taken."*—It is to be specially noted that the requirements of No. 39 (4) of the Methylated Spirits Regulations, 1930, which requires that the bottles or other containers in which any articles made with industrial methylated spirits for medical purposes are put up for sale or supply shall be conspicuously labelled "FOR EXTERNAL USE ONLY," "NOT TO BE TAKEN," or other words to the same effect, remain in full force and are applicable to surgical spirit made to the new formulas.

6. *Other I.M.S. Formulas, and dispensing on medical prescription, not affected.*—It should be clearly understood that nothing in the present notice affects either—

(a) the use of any authorised industrial methylated spirits formulas except those for surgical spirit which are now withdrawn as shown in paragraph 1, or

(b) the right to make up any article upon the prescription or order of a medical practitioner, dentist or veterinary surgeon.

Custom House, London, E.C.3.

March 1934.

# Topical Reflections

By Xrayser

## Enthusiasm

was certainly in evidence at the first meeting of the Pharmacy League (C. & D., March 3, p. 235). Far be it for one who qualified before the year 1921 to say anything to quench or check such enthusiasm; I wish the movement all success so far as it makes for the progress and betterment of pharmacy, "commercially, scientifically and socially." There is no doubt that such a society, wisely directed, can do very much for pharmacy. As one speaker suggested, the problem of unemployment could be tackled, training of apprentices could be considered, the number of persons coming into pharmacy dealt with and the evergreen subject of salaries legislated for. One of the dangers of such a movement lies in a possible excess of enthusiasm, unchecked and modified by those who have had experience of public and pharmaceutical life, because such will apparently be barred from the League by reason of their age. I should not be surprised to learn that the majority of pharmacists in business, those who have invested their capital in it and are, to a great extent, providing the sinews of war for the work of the Pharmaceutical Society, are men over the League age, and, therefore, will not be represented in the new body. Progressive thought is not the exclusive possession of youth, nor is mental inertia always characteristic of those over fifty. I think the League is making a mistake in imposing this age limit. Time, however, will show.

## The Veil

which has so often obscured the work of checking and pricing N.H.I. scripts was gracefully lifted by Mr. A. B. Gilmour at a recent evening meeting of the Pharmaceutical Society in Edinburgh (p. 244). Some amusing and instructive examples of prescribing on an extravagant scale were given by the speaker; there are cases recorded recently, on the other hand, in which the desire to save expense has been so marked that a mild rap over the knuckles of the prescriber has been given by the Insurance Committee, 2 oz. of aspirin having been ordered with one 10-gr. powder of the same drug. From the directions it was evident that the powder was to be taken as an indication or guide for putting up the whole of the aspirin into similar-sized powders; the intention of the prescriber was to save the dispensing fee for weighing up. Mr. Gilmour's address shows the extraordinary growth and complexity of N.H.I. dispensing during the twenty-one years it has been in the hands of the pharmacist. I recall vividly the first insurance script I dispensed and the methods used for pricing, which, in those days, was done by the pharmacist himself. While it is true that the new heaven and new earth promised to the chemist upon the advent of the scheme have not yet materialised, it can be said with truth that pharmacy to-day would have been a poor calling had not those far-seeing framers of the Act of 1911 provided a place in it for the pharmacist.



## Legal Reports

**Dispute over Trade Marks.**—In the Chancery Division of the High Court, London, on March 6 and 7, Mr. Justice Eve heard an application by Parfumerie J. Lesquendieu, S.A., of Paris, for the rectification of the Register of Trade Marks by expunging six trade marks registered in the name of Joseph Lesquendieu. Mr. F. E. Bray appeared for the applicants; Mr. F. R. Evershed, K.C., and Mr. McEwan were for M. Lesquendieu, the respondent. Mr. Bray said that five of the marks were registered in May 1931, and one in August 1932. The grounds of the application were that at the date of the applications M. Lesquendieu had no *bona-fide* intention of using the marks in connection with the goods for which they were registered, and that there has been no *bona-fide* use of them. It was also contended that the trade marks were distinctive of the applicants' goods exclusively. Prior to 1925, said counsel, M. Lesquendieu had two businesses in France for the sale of perfumery and toilet goods. One was Parfumerie Lesquendieu and the other was carried on under the name of La Reine des Crèmes. In 1925 he promoted two companies under those titles and assigned the businesses to them. He reserved, however, the right to exploit the trade marks in foreign countries. Soon afterwards an English company, Lesquendieu, Ltd., was formed, and in April 1926 an agreement was made by that company with the French companies under which the latter were bound to supply the English company with Lesquendieu goods for thirty years and that company was to buy exclusively from the French companies. That was, in fact, done, but, nevertheless, in 1931, M. Lesquendieu had registered in his own name these trade marks, which were well known in this country as indicating the applicants' goods. He had also acquired a factory at Alpertown for the manufacture and sale of perfumes here. There was litigation pending with regard to that, as it seemed to be a clear breach of the 1926 agreement. M. Joseph Lesquendieu, giving evidence for the defence, said that his agreement with the applicant company was that they should promote the sale in England of La Reine des Crèmes until such time as he might elect to manufacture in this country. He never gave anyone the right to manufacture, and never sold the property in his marks in England. He would never have parted with his interest in the applicant company save only on the condition that he should be perfectly at liberty, whenever he thought fit, to carry on business and manufacture in England. Even if the marks were declared void by the Court, he would take steps to prevent the applicants using them in this country. His lordship reserved judgment.

## New Companies and Company News

P.C. means Private Company and R.O. Registered Office

**WILLIAMS (WHOLESALE), LTD. (P.C.).**—Capital £200. Objects: To acquire the business of a chemist and druggist carried on by Joseph Williams at 19 Beckett Street, Leeds.

**C. FLOWER, LTD. (P.C.).**—Capital £1,000. Objects: To carry on the business of chemists, druggists, manufacturers of and dealers in toilet articles, etc. R.O.: 7 Aire Street, Castleford, Yorks.

**PRICE-SIGRIST, LTD. (P.C.).**—Capital £2,000. Objects: To carry on the business of chemists, druggists, opticians, photographers, etc. Solicitors: Hobbs, Hamilton & Hobbs, 12 St. Stephens Street, Bristol.

**DR. SINGHA COMPANY, LTD. (P.C.).**—Capital £3,000. Objects: To acquire the business of wholesale and retail manufacturers and vendors of Dr. Singha Asthma Cure carried on as the European Products Company at 72 Pool Street, Caernarvon.

**SYNO LABORATORIES, LTD. (P.C.).**—Capital £3,000. Objects: To carry on the business of manufacturers of and dealers in medicines, medicinal preparations and drugs, etc. R.O.: Princes House, Whitcomb Street, Leicester Square, W.C.2.

**BRITISH COD LIVER OIL PRODUCERS (HULL), LIMITED. (P.C.).**—Capital £50,000. Objects: To carry on the business of producers and distillers of and dealers in oils and other products from all kinds of substances, whether or not composed of or extracted from fish, parts or contents of fish or fish refuse, manufacturers of and dealers in fish oil and other fish products, manufacturing chemists and druggists, makers of cleansing solutions, soap boilers and candle makers, etc. The twelve directors are all directors of the Hull Ice Company, Ltd. Solicitors: Andrew M. Jackson & Co., Victoria Chambers, Bowlalley Lane, Hull.

**FARRELLS PRODUCTS CO., LTD. (P.C.).**—Registered in Dublin. Capital £1,000. Objects: To carry on business as chemists, druggists, etc. Directors: Frederick G. Thompson, Hermitage, Carlow; Noel M. Purcell, 16 Dawson Street, Dublin.

**ELI LILLY & Co., LTD. (P.C.).**—Capital £10,000. Objects: To carry on business as chemists, druggists, &c. Directors: C. J. Lynn and Mrs. C. M. Lynn, 5,600 Sunset Lane, Indianapolis, Indiana, U.S.A.; T. Armstrong, 149 Alicia Gardens, Kenton, Middlesex.

**JOSEPH NATHAN & Co., LTD.**—Report for the year ended September 30, 1933, shows a trading profit, after providing for depreciation, taxation, etc., of £73,167 (£36,701 for the previous twelve months). The net profit, after deducting all general expenses and writing off £16,500 in respect of subsidiaries, amounted to £59,522.

**SPRATTS PATENT, LTD.**—Accounts for 1933 show a net profit of £95,706 (£94,302 for 1932). The directors propose to maintain the distribution on the ordinary shares at 15 per cent. by paying a final dividend of 7½ per cent. and a bonus of 2½ per cent. A further £5,000 is to be added to the pension fund and £5,000 (against £12,000) is to be transferred to reserve, leaving £22,962 (against £16,256) to be carried forward. A strong position is shown by the balance sheet. Floating assets total £638,312 (of which £432,966 is represented by cash and trustee securities), against current liabilities of £188,266.

**EVANS SONS LESCHER & WEBB, LTD.**—Report of the directors for the year ended December 31, 1933, shows that, after writing off all establishment charges and advertising, making provision for bad and doubtful debts, and depreciation of stock and plant, the trading profit amounts to £32,695 19s. 5d. After providing for mortgage interest £4,302 5s. 9d., directors' fees £2,100, income tax £5,740, and bringing in balance from previous year of £2,210 7s. 10d., there is a total of £22,764 1s. 6d., from which is deducted for mortgage and leasehold redemption accounts £1,564 0s. 9d. and interest on credit notes £2,719 13s. 2d., leaving available a balance of £18,480 7s. 7d., which it is proposed to appropriate as follows:—Transfer to general reserve, £10,000; payment of six months' dividend on the 6 per cent. preference shares, less tax, £5,440 11s. 2d.; leaving a balance carried forward of £3,039 16s. 5d. In their report the directors state that the volume of business transacted during the year has increased both at home and abroad; this increase has again embraced a larger proportion of the company's biological and chemical specialities. It has also been found possible to effect further economies in expenses. Each of these three factors has contributed to the improved trading profit. A subsidiary company was formed in Brazil in June last, under the title of Productos Chimicos Evans Ltda., in order to facilitate the company's business in that country: the small loss inevitably incurred during the few months' initial trading has been written off. Charles Midgley, Ltd., have, in spite of the severe competition in the soap trade, experienced a more satisfactory year's business. The profit earned has been carried forward in their accounts.



## Voluntary Liquidations

**The Millbrook Pharmacy, Ltd.**, 263 Millbrook Road, Southampton. A meeting of the creditors was held recently at Southampton, when a statement of affairs was submitted showing liabilities of £3,295 18s. 9d., all due to unsecured creditors. In addition there were fully secured creditors for £88 18s., holding securities valued at a like amount. The assets consisted of cash in hand £36 16s. 7d.; stock in trade, cost, £1,404, estimated to produce £700; trade fixtures, fittings, utensils, etc., £400; loan due, £120; and book debts, estimated to realise £215 19s. 11d., making total assets of £1,472 16s. 6d., from which had to be deducted preferential claims of £39 5s., leaving net assets of £1,433 11s. 6d., or a deficiency of £1,862 7s. 3d. It was reported that the company was formed in August 1929 with a nominal capital of £2,000, of which £1,000 was issued for cash. For the year to September 1930 the turnover was £1,150, and there was a net loss of £315. In the following two years the turnover was £2,685 and £2,515 respectively, and there were losses of £401 and £367. For the year to September 1933 the turnover was £2,504, and there was a loss of £223. It was decided that Mr. K. A. Coles, C.A., 2 Albion Terrace, Southampton, be appointed liquidator, with a committee of inspection.

**Oliver's Chemists, Ltd.**, 44 Watling Avenue, Burnt Oak, Edgware. A meeting of the creditors was held recently at the company's offices, when it was reported that the liabilities amounted to £292 11s. 6d., of which £249 11s. 2d. was due to the trade, the bank were creditors for £11 7s. 1d., and there was a cash creditor for £31 13s. 3d. The assets consisted of stock, valued at £50, which was absorbed by preferential claims amounting to £89 16s. 9d. The company was incorporated in April 1933 with a nominal capital of £100. A full set of books has not been kept, but it was stated that to January 31 last the turnover was £957, the gross profit amounted to £257, and there was a trading loss of £283. It appeared that the landlord of the premises had distrained in respect of arrears of rent amounting to £44, whilst another creditor was in possession for a debt of £50. The creditors decided that the matter should be adjourned for a week with a view to an offer being submitted.

## Private Arrangement

**Harry Frederick John Burton**, trading as H. F. Burton, 180 Garston Old Road, Liverpool, chemist and druggist. A meeting of the creditors was held recently at the Common Hall, Liverpool, when a statement of affairs was presented showing ranking liabilities of £1,486 2s. 6d., made up as follows:—Trade creditors, £390; cash claims, £500; and partly secured creditors, £596 2s. 6d. The latter were the bankers, who claimed £628 17s. 2d., and they held securities valued at £32 14s. 8d. The assets totalled £241, or a deficiency of £1,245 2s. 6d. It was reported that the debtor purchased the business in August 1931 for £858. During the year to April 1933 the sales were £1,084, with a net profit of £105. Since July last the sales had been £503, with a net loss of £33. In the absence of any offer it was decided that a deed of assignment should be executed to Mr. Parkin S. Booth, of the Association of Manufacturing Chemists, Liverpool, with a committee. It was also decided that the business should be continued with a view to a sale as a going concern.

## Gazette

## Partnership Dissolved

**HERTZ, J., and MORLEY, F. I.**, 9 Mincing Lane, London, E.C.3, "wholesale and retail manufacturing chemists and druggists' sundriesmen," under the style of Hertz & Co.

## Bankruptcy Acts

**GOLDRING, Mrs.**, 61-63 Middlesex Street, and 90 Charles Street, London, E.1, "chemist."

## "C. &amp; D." Retail Price List

The drug index of prices for February shows a fractional fall from that of January, i.e., 144.3 against 144.4. It is nearly five points below February 1933. The changes in prices were extended over a number of lines, but apart from the cost of opium the variations had little effect on the index figure. In surgical dressings there is once again no change, the index figure being 136.5. The important changes in dispensing and selling prices are set out below:—

Cost			Selling Price			
d.	per		16 oz. s. d.	4 oz. s. d.	1 oz. s. d.	1 dr. s. d.
60	lb.	Anthemidis flores exot...	7 6	2 2	0 8	0 2
66	lb.	Anthemidis florum exot. pulv. . . . .	—	2 5	0 9	0 2
51	lb.	Anthemidis flores exot. sec. . . . .	6 6	1 11	0 7	—
22	oz.	Barbitonum solubile B	—	—	3 3	0 6
27	oz.	Cinchophenum . . . .	—	—	4 0	0 7
102	lb.	Ext. damianæ liquidum	—	3 10	1 1	0 2
63	lb.	Ext. opii liquidum B, F	—	2 4	0 8	0 2
69	oz.	Ext. opii siccum. . . B, F	—	—	—	1 6
14	lb.	Hennæ folia . . . .	1 9	0 7	0 2	—
17	lb.	Hennæ fol. pulvis . .	2 3	0 8	0 3	—
66	lb.	Hydrargyrum . . . .	8 3	2 5	0 9	—
33	lb.	Lin. capsici co. meth. . .	—	1 3	0 5	—
90	lb.	Lin. opii . . . . . B, ex F	—	3 2	0 10	0 2
99	lb.	Lin. opii ammoniatum B, ex F	—	3 7	1 0	0 2
42	lb.	Lin. opii ammon. meth. B, ex F	—	1 6	0 5	—
54	lb.	Lobelia pkts. . . . C	—	2 0	0 7	—
54	lb.	Lobeliæ pulvis . . . . C	—	2 0	0 7	—
86	gal.	Ol. terebinthinæ. . . .	pint	1 6	0 2	—
30	oz.	Opium Turc. . . . . B, F	—	—	4 5	0 8
32	oz.	Opium pulv. . . . . B, F	—	—	4 8	0 8
42	lb.	Pulv. cretæ aromat. c. op. B, ex F	—	1 7	0 6	0 1
10	oz.	Pulv. opii co. . . . . B, F	—	—	1 6	0 3
78	lb.	Tr. opii . . . . . B, F	—	2 10	0 10	0 2
74	lb.	Tr. opii B.P. '98 . . . B, F	—	2 8	0 9	0 2
78	lb.	Tr. opii ammoniata . . C	—	2 10	0 10	0 2
56	lb.	Tr. opii aq. (1% morph.) B, F	—	2 0	0 7	0 1
186	lb.	Tr. opii crocata B.P.C. B, F	—	6 8	2 0	0 4
96	lb.	Tr. opii deod. U.S.P. B, F	—	3 5	1 0	0 2
87	lb.	Vin. opii . . . . . B, F	—	3 2	0 11	0 2

## Business Changes

MR. H. CORBETT MEYRICK, L.P.S.I., has rejoined Meyrick & Co. (1933), Ltd., as manager and superintendent.

MR. TOM IDDON, chemist and druggist, 25 Westcliffe Drive, Blackpool, has obtained new corner premises at 153 Layton Road, where he will open a branch.

BRADFORD TECHNICAL COLLEGE.—An illustrated account of the Department of Pharmacy at Bradford Technical College appeared in the "Yorkshire Evening News" on February 20.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—The eighth annual report of the Pharmacological Laboratories of the Pharmaceutical Society has just been issued. The customary particulars of the research and testing carried out are given. The total number of samples carrying fees during the past year is 198.



# National Pharmaceutical Union

## Executive Meetings

MEETINGS of the Executives of the National Pharmaceutical Union and Chemists' Defence Association were held at 4 and 5 Queen Square, London, W.C.1, on February 27, Mr. P. F. Rowsell in the chair.

### PARLIAMENTARY AFFAIRS

The Contraceptives Bill now before the House of Lords was considered by the Executive, and instructions were given to the secretary to take any necessary steps to safeguard the chemists' interests when the Bill came before the House of Commons.

### ALTERATION OF RULES

The Executive considered a suggestion that the rules should be altered to give some control over members who were persistent cutters or who otherwise acted contrary to the best interests of the trade. It was pointed out that the existing rules provided for expulsion from membership, but did not make any provision for the suspension of benefits without expulsion. The secretary was instructed to draft an alteration of rules allowing for suspension of benefits.

### CO-OPERATIVE SOCIETIES

Requests from the National Organisations Co-Ordinated Committee and from Lord Beaverbrook to assist in representing the retail traders' interests against the co-operative societies were considered and assurances of support given.

### PUBLICITY CAMPAIGN

A report was received from the Publicity Committee stating that the minimum support had not yet been received, but that it was possible that a further effort would bring the desired result. The Committee had accepted a resolution which had been adopted by the N.P.U. Conference regarding the issue of a distinctive publicity sign at an early date, provided that those who had subscribed to the publicity campaign agreed to the issue of the signs in advance of the campaign itself. It was thought that the present reluctance of members to support the publicity campaign might be overcome if they saw the sign in use by members of the Publicity Association. The secretary was instructed to ascertain the wishes of those who had become members of the Publicity Association.

### MARKETING COMMITTEE

The report of the Marketing Committee dealt, among other things, with gift schemes, dividend tickets, uniformity in prescription pricing, supplies to bazaars and window displays. Regarding the last-named, the Committee recommended the acceptance of the offer of the co-operation of THE CHEMIST AND DRUGGIST in regard to the arrangement of periodical displays, and recommended the Executive to authorise the distribution of descriptive illustrations of the displays four times a year, commencing with an Easter gift window. These recommendations were accepted, and the secretary was instructed to thank THE CHEMIST AND DRUGGIST for their co-operation.

### N.H.I. MATTERS

The Central N.H.I. Committee reported on the position of the drug fund for 1933, and stated that the balance available for dispensing fees, after paying the cost of ingredients in full and the 10 per cent. economy cut, enabled 88.6 per cent. of the dispensing fees to be paid. Among other matters with which the Committee dealt were the operation of Regulation 10 regarding rural areas, the right of free choice of chemist, and the abolition of the economy cut. The Ministry of Health's proposals for the alteration of the Tariff were referred back for further information. Proposals by the Ministry for changing details of the investigation of prescribing were

accepted. The secretary was instructed to write to the Ministry saying that the Executive were very disturbed by the present position in regard to foot supports.

### ORGANISATION

Requests for speakers were received from three branches. A report was received that there had been a very large influx of new members during the past month, over ninety new applications having been received.

### C.D.A. Matters

The secretary reported that there were five cases outstanding since the last meeting of the directors, of which one might be considered closed and one had been settled by payment of £20. Fifteen new cases had arisen during the month, of which twelve had been settled as follows:—Clothes damaged by moths after use of moth powder; claim settled by payment of £3 1s. d. Gargle and mixture labels transposed; claim settled by payment of £6 6s. Illness caused by proprietary medicine; claim settled by payment of £52 10s. Car batteries damaged by lime water supplied for distilled water; claim settled by payment of £1 5s. Gloves damaged by bottle of peroxide leaking; claim settled by payment of 5s. 11d. Glycerin supplied for liquid paraffin; claim settled by payment of 18s. Acetic acid supplied by mistake; claim settled by payment of 13s. 6d. Injuries caused by sun-blind; claim settled by payment of £7 10s. Coat burned on radiator; claim settled for 5s. Coat torn on box in shop; claim settled for 11s. Hat burned on gas jet; claim settled for 14s. 6d. Damage caused by cover of water cistern blowing off roof; claim settled for £2 15s.

## Branch Meeting

**Pontefract.**—At the annual meeting of the Pontefract, Castleford and District Branch at Castleford, on February 27, Councillor A. L. Bratley (Pontefract) was elected *Chairman*; Mr. C. S. Challinor (Castleford) was re-elected *Secretary* and *Local Secretary of the P.A.T.A.*; Messrs. C. J. Wroe (Featherstone), T. Heseltine (Normanton) and R. N. Jackson (Castleford) were elected to the *Committee*. In spite of severe weather, over 50 per cent. of the members were present.

## Prescription Problem

OUR next problem is given below. Exact transcriptions of the prescription are invited on postcards only (one attempt), which should reach the Editor, THE CHEMIST

*Handwritten transcription:*  
 Phosphorus de Lime 0g 003  
 Poudre de charbon 0g 10  
 — de menthe 0g 003  
 — de thyrid 0g 003  
 Poudre de réglisse 0g 10  
 J. unca chet 4 - 20

AND DRUGGIST, 28 Essex Street, London, W.C.2, not later than the first post on Monday, March 19. Prizes will be awarded at the discretion of the Editor.



# ADVERTISING for the CHEMIST

FOR one reason or another many chemists find it necessary to advertise in their local papers, and while some make good use of the space others appear to treat the matter as a customer might a dose of nasty medicine, i.e., swallow it quickly and forget it. Most people who enter a chemist's shop enjoy a little chat over what they are buying, and it is not impossible to lure them into the pharmacy by giving them a little of this talk in a newspaper. At the present time the topic uppermost in the mind of almost every housewife is spring-cleaning, so let this be the subject of your advertisement, which might be laid out as either of the examples on this page. Every effort should be made to get the advertisement inserted next to literary matter, and this can sometimes be done without incurring the cost of a special position. An announcement so placed is far more effective than one surrounded by other advertisements. Illustrations are somewhat of a problem. There is no doubt that a picture can make a tremendous increase in pulling power, but unless it is the chemist's own speciality that is being advertised the additional cost is not justified. Some manufacturers of proprietaries supply blocks on loan.

The articles advertised should be backed up by displays in the window and on the counter.

Polishes are of course only one class of preparations used for spring cleaning, and others which could be "featured" include paint removers, soft soap, hand cleaning powders, household dyes, plate polishes, lavatory bowl cleanser and disinfectants.

## When Mother was a Girl

SPRING  
CLEANING

polished brass, polished floors and polished furniture was the order of the day. The brass has mostly disappeared but the woodwork and the leather upholstery when well polished still give the housewife a feeling of pride. Below are some recipes which have withstood the test of time.

Beeswax ...	5 oz.
Turpentine ...	20 oz.

Linseed Oil ...	1 oz.
Vinegar ...	1 oz.
Methylated Spirit	1 oz.

Beeswax ...	20 parts
Potash ...	2½ parts
Turpentine..	2 parts
Water to	100 parts

Excellent as preparations from the above recipes proved themselves to be, modern science has devised better ones, so that a finer gloss can be obtained with less rubbing. Polish such as this is called "\_\_\_\_\_". It is obtainable at \_\_\_\_\_

## BLANK & CO.

CHEMISTS,

STREET, BLANKVILLE

### \*SPRING CLEANING HINTS

To free the home of the dirt remaining from winter's fogs.

**CARPETS** can be cleaned and brightened up by means of a carpet soap or dry cleaner.

**FLOORS** which have been waxed should be scraped with a wire brush or fine steel wool and re-polished.

**PAINTWORK** should be sponged with a weak solution of sugar soap, rinsed with clean water, then finished with a chamol leather or soft rag.

**MODERN** homes need modern materials, BLANK & CO., chemists, ——— Street, have obtained the most up-to-date recipes to prepare their soaps and polishes which provide better results at less cost and less labour.

**BLANK & CO.,**  
— STREET, BLANKVILLE

For the benefit of chemists who have not already any special recipes for spring-cleaning preparations, below is given a selection from the new edition (Vol. II) of "Pharmaceutical Formulas":—

#### Dry Carpet Cleaner

Sawdust ...	90 parts
Soap bark, in powder ...	10 parts
Sodium carbonate, in powder ...	10 parts

#### Polish Reviver

Linseed oil ...	1 lb.
Dilute acetic acid (6 per cent.)... ..	20 oz.
Hydrochloric acid ...	1 oz.
Solution of antimonious chloride ...	3 oz.
Spirit ...	3 oz.

#### Mop Polish

Linseed oil ...	70 per cent.
Oil of turpentine ...	10 per cent.
Terebene ...	5 per cent.
Cedarwood oil ...	5 per cent.
Kerosene ...	5 per cent.
Essential oil of camphor ...	5 per cent.
Aniline orange ...	to colour

#### Linoleum Polish

Yellow ceresin ...	4 oz.
Hard paraffin ...	2½ oz.
Boiled linseed oil ...	1½ oz.
Oil of turpentine ...	16 oz.
Oil-soluble cerotine orange ...	½ oz.

It is important to stress the fact that it is your formula which has advantages over old-fashioned recipes, that your polish lightens the burden of the housewife, and that you have made a special study of the problems connected with spring cleaning.



# New Treatments for Obesity

IN our issue of December 30, 1933, we summarised briefly the results obtained in the United States in the treatment of obesity with carefully regulated doses of 2:4-dinitrophenol (alpha-dinitrophenol), and pointed out that the evidence regarding its toxicity was somewhat conflicting. The latest issue of "The Journal of the American Medical Association" received (102, 7) contains a paper by two more investigators, Drs. J. H. Masserman and H. Goldsmith, whose findings we will record in a later paragraph. First, however, we must give an account of pharmacological and clinical research carried out in this country with another chemical, 4:6-dinitro-*o*-cresol, which is attracting attention in medical circles.

## Dinitro-*o*-Cresol

A preliminary communication by Professor E. C. Dodds and Sir William Pope was published in "The Lancet" of August 12, 1933 (p. 352), almost simultaneously with the first report of Dr. W. C. Cutting and others in "The Journal of the American Medical Association," which launched the investigations referred to in our issue of December 30. Professor Dodds and Sir William Pope indicated the pharmacological action of 4:6-dinitro-*o*-cresol, thus suggesting further research. The pharmacology of this substance was placed on a sound basis by another monograph, the work of Professor Dodds and Dr. J. D. Robertson, which appeared in "The Lancet" of November 18, 1933 (p. 1137), the sole purpose, according to the authors' modest claim, being "to establish a safe dosage for this compound in order that the basal metabolic rate may be maintained at a level above normal for long periods." The monograph (illustrated with charts) shows that in two cases in which 3 mgm. per kilo body-weight was administered daily the basal metabolic rate had reached an alarming height by the third day, in one case showing nearly 100 per cent. increase. It was found that 0.5-1.0 mgm. per kilo body-weight (representing 50-100 mgm.) per day maintained the metabolic rate at a level above normal without the appearance of any untoward symptoms. Definite toxic symptoms appeared if the basal metabolic rate exceeded +50. The authors (who acknowledge the assistance of British Colloids, Ltd.) conclude that in no circumstances should the substance be administered in such quantities as to raise the basal metabolic rate above this level. They add: "It must also be borne in mind that neither the pulse rate nor the blood pressure are of any value in assessing the basal metabolic rate, since the characteristic action of this compound is an increase in metabolism without a proportionate stimulation of the cardio-vascular system such as occurs with the administration of thyroxine." The patients selected were young adults.

Professor Dodds returns to the subject in an article on the dietary treatment of obesity in "The Practitioner" for January 1934 (p. 54). Incidentally, he gives a warning on the use of thyroid and thyroxine:—

"From what has already been stated it can be seen that the indiscriminate use of thyroid preparations should not only be condemned on account of their effect upon the cardio-vascular system, but is also to be condemned on the grounds that its use is unscientific. If it be admitted that the weight of the body depends upon the balance between intake in the form of food and output in the form of energy, then since thyroid preparations can only increase the output of energy it follows that indiscriminate use will not be of benefit."

Having alluded to his "Lancet" monograph in collaboration with Dr. Robertson, he sums up thus:—

"An extensive clinical trial is being performed with this compound. The administration of substances of this type must always be attended with the very greatest caution since if an excessive amount be given hyperpyrexia with possibly fatal results may occur. It is

interesting to note that the cardio-vascular system is not affected by these substances in the same way as by thyroxine. For example, it was possible to raise the basal metabolic rate to over +50 without a corresponding increase in the pulse rate. . . . A further striking difference between the action of dinitro-*o*-cresol and thyroid extract was shown by the fact that, while it was possible to increase the basal metabolic rate of an untreated case of myxœdema to +30 by the administration of the dinitro-*o*-cresol, the symptoms of this disease are not in any way affected. (Dodds and Robertson). There can be no doubt that this group offers an entirely new and interesting therapeutic weapon in the treatment of obesity, and it is to be hoped that experiments now in progress in America and in this country will justify the present promise."

## Alpha-Dinitrophenol

The article by Drs. Masserman and Goldsmith in "The Journal of the American Medical Association," referred to in our opening paragraph, is a study carried out with eighteen patients "whose psychobiologic status was characterised by sluggishness, passivity and apathy." These patients were between eighteen and forty years of age and free from "gross organic disease." Each patient was given 60 mgm. (= about 1 gr.) of sodium dinitrophenol daily, and the dose was increased every third day until a maximum of 5 mgm. per kilo body-weight in divided doses with meals twice a day was reached, or until adverse symptoms appeared to contra-indicate further treatment on the same lines. The elaborate series of observations usual in such tests was carried out. With the exception of five cases, the patients were kept on a regular dosage for three months, with monthly rest intervals of a week. It will be noted that the mental condition of these patients was an important criterion of the effect of the treatment. The authors state in their concluding paragraph that in therapeutic dosage the drug caused a mean rise of  $32.9 \pm 3.31$  per cent. in the rate of oxygen consumption and a mean weight loss of 0.92 lb. a week. Toxic effects occurred in five cases and were characterised by a fall in blood pressure, tachycardia, acidosis, progressive stupor, and one death. Indeterminate or adverse psychotherapeutic effects were observed in eight and four cases, respectively, while six patients showed a definite improvement in their mental state, apparently attributable to the medication. Dinitrophenol is therefore unpredictably toxic to some patients, but its careful administration may be of empirical benefit in certain types of recent and insecurely established psychobiological underactivity. A larger number of cases is under investigation in the United States. One obvious deduction is that the prescribing of either of these powerful substances should be left to medical men.

## Styptics

DECOCTION of oak bark and infusion of galls were both in common use formerly as external styptics, on account of the tannin which they contain. Fuz ball or blind man's buff, an *Agaricus*, is specially mentioned in an old treatise, and it may be of interest to recall that the writer remembers this styptic being popular with medical men up to the time of the great war. Another article of commerce frequently used domestically, though perhaps not hygienic, was cobweb. The web of the black spider was deemed the best as a styptic for flesh wounds and for application to leech-bites. The writer has often seen it used for these purposes, but the manual referred to also speaks highly of cobweb as a remedy for ague. In this case it was administered in ten-grain doses internally, every two hours, the treatment to begin six hours before the recurrence of the paroxysm. It was prescribed in pill form.—SCOTTA (6/2).

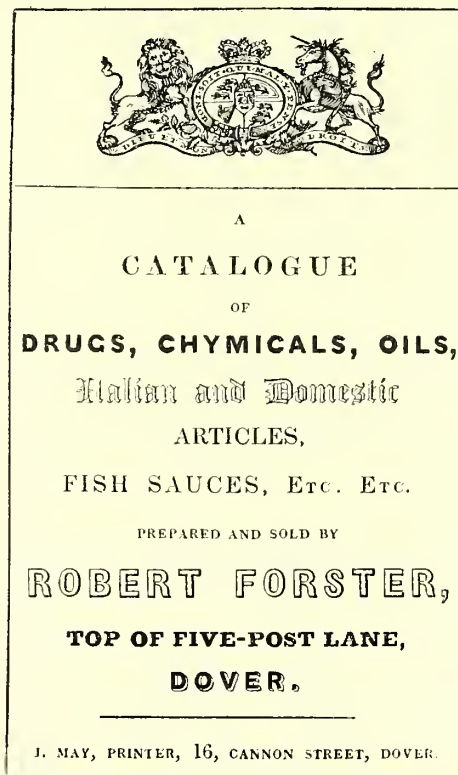


# A Dover Centenary

**T**HE centenary of the establishment of the business of Forster & Co., chemists, 52 Castle Street, Dover, at its present address occurs this year. Robert Forster, the founder, was born at Margate in 1808, and commenced a seven years' apprenticeship to a Mr. Chittenden, surgeon and chemist, The Lanes, Dover, in March 1824. His apprenticeship carried with it the privilege of becoming a freeman of the borough. He was afterwards assistant to William Cocke, King Street, another surgeon and chemist, and going with him to visit patients became well known in the town. When he married, in 1832, he and his wife resided in the house of Dr. Cocke for two years. Mr. Forster carried on business for a brief period at the top of Five-Post Lane, but in 1834 removed to 4 (now 52) Castle Street, the present frontage of which is shown in one of our illustrations. We have before us a photograph of the shop front taken about fifty years ago, showing the same massive pillars but a shop window consisting of small panes, reminiscent of the days when windows were taxed. The houses in that part of the street, built only just before Robert Forster took possession of his premises, were designed by Robert Prescott, Mrs. Forster's brother.

The original proprietor was followed by a son and then by a grandson, making three generations in rather less than a century. The son, Robert Henry Forster, was apprenticed to his father in 1851 and took over the business in 1868, his father (who went to live at 26 Castle Street) assisting him till his death in 1873. Robert Henry Forster died suddenly in 1901; his son, George Francis Forster (born 1869), then returned home from London, where he was dispenser at St. Bartholomew's Hospital, and after managing the business for a time on behalf of his mother became the proprietor. He died in 1917. Mr. and Mrs. G. F. Forster were great lovers of dogs, and their Newfoundlands were well known in Dover. On Mr. Forster's death his widow continued the business till 1920; she then disposed of it to the present proprietor, Mr. E. G. Sharp, F.C.S., M.P.S., who had served as an officer in the British Army in France and Belgium. The reputation of the shop for veterinary medicines is as great as ever after 100 years.

On setting up in business Robert Forster issued a catalogue consisting of eighteen pages measuring  $4\frac{1}{2}$  inches by  $3\frac{1}{4}$  inches, stitched in mauve paper covers. We



reproduce the contents of the title page in the exact size of the original list. The back of the title-page is occupied by an advertisement of the fitting up of medicine chests. The next two pages contain a brief address from Mr. Forster and announcements of teas, coffees, sauces, fancy snuffs, "segars" and various other things. The catalogue itself is divided into sections likely to appeal to the shopper of the day, who bought several things from the chemist for which she generally goes now to the grocer. Some of the explanatory notes are of interest—e.g., "Epsom Salts, extra-purified and re-crystallized, to prevent the possibility of its being mistaken for Oxalic Acid." The chemist in "Pickwick" might have been glad of this. And under "Bark, Peruvian" we read: "It is not generally known that there are three distinct species of this Bark, differing not only in value, but materially so in their quality and effect." Mr. Forster proceeds to give their botanical names.





# "Pharmaceutical Formulas," Vol. II

## Reviews and Appreciations

By Mr. S. Judd Lewis, D.Sc., F.I.C., Ph.C.

I should like to congratulate you warmly on the completion of the second volume of the new edition of "Pharmaceutical Formulas." The work is monumental in its scope and size, embodying not only a multitude of formulas, the great majority of which are no doubt inserted with good reason, but incorporating also that general guidance and information which enables one to assess the merits of the several formulas and proceed to select or devise the one required. The interesting historical notes should often provide attractive advertising matter. To the analyst the work will be most helpful in suggesting lines of inquiry.

By Mr. William Mair, F.C.S., F.R.G.S.

A first glance at the book shows that it is well named "The Chemist's Recipe Book," and the 1,000 pages of this the tenth edition (a larger page than that of previous editions) are at once an index of the diversity of the requirements of latter-day pharmacy. It is a codex and epitome of everything extra-pharmaceutical as distinct from Vol. I, which is a compendium of everything essentially pharmaceutical and which includes, in addition, the formulas for "known, admitted and approved remedies" under the well-recognised mark "P.F." Suggestions for "profitable extras" will be found on every page of this book, and there are few of the innumerable queries arising in the pharmacy that it will not readily answer. Who would have thought that the liquid of a petrol gauge in a motor car is bromoform coloured red with a scarlet aniline dye, or that canaries could be coloured? There is a choice of three foods for this purpose, quoted from the Ph.R.B. (Pharmaceutical Recipe Book of the American Pharmaceutical Association). Here is how to bleach sausage skins or prepare sanctuary oil. The formulas for chartreuse (green, white and yellow) and benedictine are irresistible.

The book is rich in formulas for everyday practical requirements, utilising, in many cases, materials which were not in use when the earlier editions were published. It is especially well equipped in the sections relating to toilettries, so important in the present-day chemists' business. The monograph on perfumery runs to 100 pages, and includes all that is known on synthetic and artificial perfumes, and how to make them and flavouring essences from synthetics. The recent uses of isopropyl alcohol in toilet preparations are indicated, and there is an ingenious method of perfuming industrial spirit with modern synthetic perfumes based on "building on the combined basic note of the crude spirit and turning this note into an essential ingredient of the finished perfume." Few chemists are likely to commence the manufacture of "compacts" from the hundred formulas for rouge and face powders; but all can avoid the many pitfalls to be encountered in recommending the most suitable of these adjuncts. Quoting an authoritative article (*C. & D.*, 1932, II, 612) it is stated that "every woman who really desires to look her best requires at least two rouges," and hints are here given as to the face powder to advise for florid complexions under electric lighting. What is required is "a green face powder [formula given], the utility of this being by no means as widely recognised as it deserves to be." Truly the responsibilities of the post-graduate pharmacist are great: he has also to know how to produce "platinum blond" and gold or ash blond shades of hair and "setting lotions." All are found here.

It is thus seen that the book is not merely a collection of formulas: it is rather a series of technical monographs on subjects of present-day importance in the pharmacy; for example, every solvent for the removal of stains is enumerated, and, in addition, there is a very complete study of the chemistry of stain-removal. The

well-known facility of the author, Mr. George P. Forrester, F.C.S., in European languages has resulted in well-chosen collateral formulas and technique being given from the most recent editions of the Austrian, Belgian, Danish, Finnish, German, Greek, Russian and other pharmacopœias and from the formularies of Dieterich, Hager, that of the Netherlands, *Formulaire des Pharmaciens Français*, the Ph.R.B., already mentioned, the F.M.G. (*Formulæ Magistrales Germanicæ*), and many others. In most instances the name of the author responsible for the formula is given; thus, in regard to ether soap, there are set out Martindale's, Herbert Skinner's and Edmund White's.

There is a wealth of new material, right down to 1934, not to be found in any other single volume. Paper, printing and letterpress are alike perfect.

By Mr. Herbert Skinner, Past-President of the Pharmaceutical Society, Past-Chairman of the British Pharmaceutical Conference, Chairman of the British Pharmaceutical Codex Revision Committee

The publication of "Pharmaceutical Formulas Vol. II" is an event which must be greatly appreciated by every practising pharmacist and pleasing to every practical man. The human mind finds its greatest joy in creative work, and this pleasure is attained in pharmacy by the creation of something new in the combination of a variety of materials organised into a formula and then into a useful production. There may be money in it, but the joy is not all commercial. Studying Vol. II of "Pharmaceutical Formulas" will be an interesting experience to those old enough to remember the original "P.F." and to appreciate the evolution that has taken place in the production of, say, toilet specialities. I first turned to "Bath Preparations," as the increase in bathrooms is probably the outstanding social feature of house multiplication in our day, and the sale of bath preparations must now be at least a thousandfold more than in 1898. Toilet vinegar was then a popular adjunct. I wonder whether it has much sale now for this purpose. It appears as a formula in the Codex, but in "P.F.," though there are several fine combinations, these are not found as bath preparations. An addition is bath Cologne, not quite so refreshing as toilet vinegar but sufficiently so if used in suitable quantity in the bath. Foam baths are new, while reducing baths have assumed a different form; starch baths remain, and from inquiries I understand our old friend the effervescent bath is returning to favour. The oxygen bath has now several satisfactory variations, while oxygen and alkali is probably the greatest favourite, especially for foot baths. In depilatories there is a wider development; and though barium sulphide is not entirely displaced, it certainly takes a back place. As this phase of toilet requisites fascinated me when I was in New York, I searched out all the packed depilatories and brought them home for examination. The sameness was remarkable, but the two sulphides used were calcium and strontium. The great art of preparing a sulphide cream is to provide against slow self-deterioration into an inert form as well as to avoid too great causticity, for what dissolves the keratin of the hair will remove the cuticle of the skin.

The "Face Powders" section provides a wide variation, and it is as well that this should be so, since fashion and æsthetic taste form an ever-changing variant. The "sun burners" are well catered for, and what makes "P.F." a necessity in the pharmacy is the grouping in easily understood form of the technical requirements for the production of a successful formula. The synthetic composition of perfumes serves to show how intricate is the blending of the components. It is an art in itself, and needs an artist as well as a chemical technician. In



manicure preparations there is a great development—especially in nail varnishes, which are not quite so simple as the formulas would indicate. Cold creams form a chapter of their own, while present-day vanishing creams have no relation to those used in former times. Skin lotions and so-called skin foods, cleansers, astringents and all the wonderful creations required by the beauty specialist provide a store of formulas almost overwhelming.

Hair preparations afford further novelties; and though many an old formula has still a good sale, the modern style is to prefer fixatives, usually in the form of a paraffin emulsion of water in oil type—probably one of the easiest to make—or in the tragacanth type. The stimulant hair lotions for promoting growth remain, though not unchallenged, as cholesterin has become quite a favourite ingredient. The shampoos, saponaceous and soapless, show a greatly extended variation. Apart from the hair dyes of the paraphenylenediamine type there is not much variation though there are several improvements. Setting and permanent waving are largely a question of alkalis and mechanics. Dental preparations occupy nearly sixty pages, and show wider variation and better-balanced formulas, in my opinion, than any others. The care and attention now bestowed on the teeth and mouth has stimulated manufacturers to produce some very fine preparations, and the representative formulas in these pages illustrate how far we have travelled since the days of hard tooth pastes and somewhat crude mouth washes.

Perfumery occupies 100 pages, and brings together a wealth of material from various sources which has not hitherto been available. The culinary and household requisites do not appear to show the same development as the toilet articles, but the wide range of formulas remains, enabling the pharmacist to act as a guide to housewives if nowadays they visit the pharmacy for such a purpose.

The laws and regulations controlling foodstuffs are set out, giving in a condensed form all the information required. Polishes, varnishes and lacquers provide a mine of useful information; and the miscellaneous collection of formulas difficult to classify provides nearly 200 fascinating pages, wherein the pharmaceutical mind can learn something essentially useful in business. The photographic section is complete in itself, and brings together all that it is necessary to know. The indexing has been well done, which is fundamental in any book of this character. The chemist's library in these days is becoming extensive (and expensive), as he is required to know something on a variety of subjects in which training is wanting or inadequate. In whatever way a chemist cuts down his expenditure, I am quite certain that he will be a poorer pharmacist unless he places Vol. II of "Pharmaceutical Formulas" by the side of Vol. I of "P.F." The value of such a book is cumulative, and in a variety of ways it helps to build business; even if an exact formula for any preparation is not so expressed, there is something to set the creative faculty working.

## Pharmacy Week in America



THE RESULTS HAVE RECENTLY BEEN ANNOUNCED OF THE UNITED STATES NATIONAL PHARMACY WINDOW DISPLAY CONTEST, AND A PHOTOGRAPH OF THE ENTRY WHICH WAS AWARDED THE "GRAND PRIZE" IS REPRODUCED ABOVE. IT WILL BE NOTICED THAT THE BACKGROUND DEPICTS JOHN BELL & CO'S LABORATORY, A PHOTOGRAVURE INSET OF WHICH WAS INCLUDED IN "THE CHEMIST AND DRUGGIST" ANNUAL SPECIAL ISSUE, JUNE 24, 1933



# Spectroscopy in Pharmaceutical Research

By S. Judd Lewis, D.Sc. (London), D.Sc. (Tübingen), F.I.C., Ph.C.

**P**HARMACEUTICAL subjects trespass upon such wide fields of science and technology that those of physics, chemistry, botany and some other spheres of learning are explored regularly by the pharmaceutical worker. This indicates how varied in character are many of the problems involved, and since they are concerned with the study of raw materials as found in nature and of commercial products from chemical and other works, as well as with analytical examination or standardisation of medicinal preparations of every type, many of these requirements are very exacting and difficult of achievement. Moreover, each succeeding year brings new demands for still more critical means of analysis. Since spectroscopy finds many of its most useful applications in such inquiries, it is desirable to consider in what ways and to what extent it may assist in pharmaceutical research. This question may be answered in some measure by considering a few of the items in the British Pharmaceutical Conference "Research List, 1933" (*C. & D.*, August 12, 1933, p. 216).

## ASH OF CRUDE DRUGS

In looking through the List one is impressed with the many opportunities there presented. The first appeal is for a study of the "Ash of Crude Drugs." The proposal is that the investigator should ascertain "the value as a standard of the ratio of natural acid-insoluble ash to the total ash of crude drugs." No one will question that such an investigation would yield much valuable information, but much more illuminating results would follow a spectroscopic examination of the ash, by which it would be found that the presence of certain elements is characteristic of certain drugs, or certain variations of the drug, and not of others of kindred nature. This was exemplified in a paper on "The Spectroscopic Investigation of Gum Acacia" read at the last Conference (*C. & D.*, July 29, p. 154). There would rarely be a call to make a complete survey of the elements as was done then; usually it would be sufficient to recognise the presence or absence of certain specific elements or certain common elements approximately, or making two or three determinations only, as exemplified in the case of gums, where the potassium was found to be higher and the magnesium lower in the Kordofans than in the Talhas; boron occurs in the Talhas only. Such comparisons and contrasts would become evident immediately on comparing spectrograms of the ashes of two varieties of drug without going into further detail, but when desired, the whole may be studied on a truly quantitative basis, as shown in the case cited.

## BISMUTH AND MAGNESIUM

Other examples amenable to similar inquiry are the bismuth salts where is required "the detection and determination of silver in bismuth salts." Not only would the silver be detected and its determination made with a precision, under ordinary circumstances within about 10 per cent. of the amount present, but the determination would be without any possible confusion with other impurities, and the other impurities, whatever they were, would be detected in the same spectrogram, and their proportions similarly estimated if desired. They would, moreover, be detected more widely than by chemical test, unless the chemical tests should be made exceedingly elaborate and exhaustive, with the expenditure of much material and time. It would then be found that the original products are not so entirely pure as they are supposed to be, but the ordinary limits would become known and the tolerance agreed. Similar remarks apply to "The composition of and impurities in commercial magnesium oxides and carbonates."

## DRUGS

Much may be learnt by ascertaining the metallic elements occurring in vegetable drugs in small quantity, and

it would not be surprising to discover some such constituents which would assist in distinguishing East Indian from rhapontic rhubarb. "The Mineral Constituents of Certain Tinctures and Drugs" by the spectroscopic method was the theme of a paper read by the author before the Conference in 1914 (*Year-Book of Pharmacy*, 1914, pp. 361-370), where the selective migration of elements from the drug into the tincture receives notice. However, the pharmaceutical analyst will find absorption spectroscopy of at least equal utility. The absorption spectrum of chlorophyll has been widely studied, and it has been found possible to determine the relative proportions of various types of this substance in mixtures. Hence the spectroscopist should render most valuable help in determining "the composition of commercial chlorophyll." The same remark applies to "the nature of the colouring matters present in anchusa root and Syrian alkanet," which is also suggested for research. Reverting again to rhubarb, the two varieties named would probably be distinguishable, and perchance the proportion of the one present in the other determinable, by comparison of the absorption spectra of their alcoholic or other extractives observed under prescribed conditions. This method has already proved fruitful in the case of herba santa, vanilla, tannins, chlorophyll and some other drugs.

## ALKALOIDS AND PRESERVATIVES

Two other studies, namely, "the determination of the total alkaloids of lobelia and its galenical preparations" and "the re-examination and proximate analysis of poppy capsules" should be greatly advanced by the spectrographic examination of the extracts as they are obtained during the course of the researches. In the latter case the form of the curve would indicate at once whether the principle separated in a crude state was similar in constitution to morphine, or to papaverine, or to narcotine. Guided by this the worker could proceed with far greater confidence along the path of chemical inquiry. The preservatives mentioned in the List, benzoic acid and the like; and many others, may be readily detected and estimated spectroscopically in complex organic media, and therefore in galenical preparations.

## VEGETABLE EXTRACTIVES

There is one field familiar to the pharmaceutical chemist which is as yet but little charted, namely, the nature of vegetable extractives. One reason for this is that when one attempts to free the extractive by any process with the aid of any reagent, or even by change of temperature, its properties or even its composition may be altered, and if one isolates some proximate principle from the extractive, there may remain doubt as to whether it existed as such during the original process of extraction. Absorption spectroscopy might here find application with most illuminating results. The absorption curve is usually an expression of the chemical constitution of the substance examined, and by comparing the aqueous, alcoholic, or other extract of one drug with that of another, whether of the same kind or not, one can gain valuable assistance in judging the comparative qualities of the extractives. This should, moreover, be a good criterion of determining the freshness of a drug, or of determining whether a powdered drug has been over-dried, or exposed to any influence which would modify the nature of the extractive.

## APPARATUS REQUIRED

From these remarks it will be realised that pharmaceutical research can be assisted very greatly and very rapidly by appeal to spectroscopy, and that many of the results are likely to be far more illuminating than anything attainable by micro-chemical or other means, since the wholly unsuspected is revealed simultaneously with that expected; there is no need to direct the experimental procedure to the detection of particular elements.



The question may well be asked as to the best and most economic means available for the purpose. It may be said that the old type of visual spectroscope is of but little value, since by its means, resorting to flame spectra in the usual textbook fashion, only the alkalis and alkaline earths with three or four elements, such as thallium, gallium, indium and the like, are readily detectable, with two or three others under favourable conditions, such as copper and magnesium. The list may be greatly extended by employing the arc or spark instead of the gas burner, but even then several important elements, for example, arsenic, antimony, nickel, cobalt, silicon, boron, phosphorus, are missing or detectable only when the quantity present is very large. Each of these exhibits strong lines in the ultra-violet region, while the case is very similar, although not so exclusive with several others, for example, lead and manganese. All these difficulties and restrictions are avoided if a modern quartz spectrograph is used. The whole of the visible spectrum and, for practical purposes, the whole of the ultra-violet region are photographed in one operation, with the result that every metallic element and the non-

metals, silicon, boron, arsenic and phosphorus may be detected readily and with certainty, even when the quantity is very small. This simple equipment, which is in permanent adjustment, may be used for a very wide range of problems in metallurgy, mineralogy, biology, physiology, etc.; but to the analytical and pharmaceutical chemist it is the most reliable means by which to detect traces of any metallic elements, no matter whether suspected or not, in plant and other organic ashes, chemical salts and galenical preparations. For example, the trace of phosphorus in a few milligrams of phosphorus pill is easily detectable, as well as the other elements present in the excipient: sodium, silicon, aluminium, manganese, traces of iron, etc. Thus in one brief direct effort the whole analysis up to a certain point is complete. For absorption spectroscopy one can do a certain amount of useful work in the old-fashioned way, using cells of various thicknesses, as with the well-known Baly tube, but for effective work it is more than merely desirable to employ a suitable photometer, such as the "Spekker." By such means the absorption curve presents well defined features.

# The Pharmacy and Poisons Act

By a Chemist and Druggist

**H**AVE any of the good people who have been giving their views—humorous, serious, legal and otherwise—during the last few weeks on the new Act read the criticism, in your pages, of the Bill before it went to the House of Commons? Few of them appear to have done so; if they did, it must have been read very carelessly, otherwise they would surely have taken steps to see that the faults which they now find in the Act were cut out or were replaced by reasonable amendments at the proper stage. Most of the points now being criticised were discussed in detail in that article. Sad to relate, the warning passed unheeded, unless, perhaps, by a few Scots who were successful in getting an amendment inserted to the effect that the Statutory Committee should contain a pharmacist resident in Scotland. Had these patriots been a little more far-seeing, they would also have had a Scottish pharmacist on the more important Poisons Committee, on which all the five pharmacists appear to be Southerners.

## Retention Fees

The new by-laws, as far as they have gone, fix the retention fee at 1½ guineas, and with 20,000 pharmacists, more or less, in Great Britain, the income of the Pharmaceutical Society from retention fees alone must considerably exceed £30,000 per annum. It is admitted that there are many unemployed pharmacists, and the question has arisen what is to be done with regard to these men. Are they to be retained on the Register on payment of a nominal fee of, say, half-a-crown, or are they to be deprived of their qualification because of their poverty? If anything such as this last occurs it is morally certain that the conscience of the country will be roused to the pitch of revolt. Someone has been suggesting recourse to the Benevolent Fund. Can anyone imagine a more unfortunate suggestion than that a fund subscribed for the indigent pharmacist, his widow and children, should be raided in order to pay subscriptions to a Society already overflowing in wealth? The idea is incredible.

The fee for registration of pharmacies does not appear to have been fixed, but one guinea per annum has been suggested. Inasmuch as there will be not fewer than 12,000 *bona-fide* pharmacies and branches, it is obvious that an entirely new income of probably half as much as the retention fees will accrue to the Society. But this is not all. Every limited company carrying a licence for the sale of Part II poisons will have to pay a similar registration fee, and the number of such must be very

large indeed. Already there appears to be a big rush, the registrations of joint stock companies, with capital of from £100 upwards, recorded in *THE CHEMIST AND DRUGGIST* in one month alone being forty-five. It seems certain that the number of sellers of Part II poisons, and, of course, of other innocuous drugs and patent medicines, will enormously exceed those engaged in pure pharmacy, and an income to the Society from retention and registration fees during 1934 of £100,000 would not be at all surprising.

## Inspection Gone Mad

Every pharmacist knows that the drug trade is already overrun with inspectors, and there is every indication that the humorous description by a recent writer in the *C. & D.* may only be a slightly exaggerated anticipation of what may in the future actually come along. In the paper referred to mention is made of education and the conduct of the examinations, "neither of which have so far been interfered with." We have not had long to wait for prospects of interference, for the Act has not yet been put in force before the Council of the Society, with almost indecent haste, has propounded a great scheme of inspection of pharmacies where apprentices are taken. This wonderful scheme has come before "the branches," where it may possibly be lapped up like sweet milk, and thereafter quietly shoved into the by-laws when nobody is watching. All this will, of course, mean the death of apprenticeship, and in ten years, more or less, practically no candidates for examination. For years past apprentices have been trained by the small man, but these men will now have some other fish to fry, and in future they will be much more likely to employ an assistant and cheap girl labour rather than be worried to death by more inspection.

But before pharmacy is quite strangled there may come a life-and-death struggle between the Society and a bunch of recalcitrant pharmacists who will decline to be dragooned into membership. There are two alternatives: one is for the small man to take things lying down, knuckle under, pay the exorbitant regulation and retention fees, and watch the business rapidly drifting to destruction. The other is that some pharmacists will not take it lying down; they will stand up and fight, and notwithstanding the loading of the legal dice against them in the new Act, they will have a strong case. No Act of Parliament has the right to deprive a man of any qualification legally obtained.







**Dr. Cassells Tablets.**—Beneath a heading announcing a "remarkable interview with 'sleepless woman'" are

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**Phyllosan.**—Though "men and women of all ages" and "irrespective of age" are urged to take Phyllosan



Hardening Arteries are probably the cause

of many of our troubles. The trouble is caused by the hardening of the arteries. This is due to the fact that the arteries become narrower and the blood cannot flow freely. This is the cause of many of our troubles. The remedy is Phyllosan brand of chlorophyll tablets, which are the result of the researches of Dr. Buergi, at Berne. By sending in the coupon the reader is offered free of charge a book entitled "The Most Wonderful Substance in Our World" and a bakelite tablet-container.



**Wright's Coal Tar Soap.**—The proprietors of this soap have consistently advertised it by means of posters



were happily chosen, thus impelling one to study "why you should insist upon Wright's Coal Tar Soap."

## Triethanolamine as an Emulsifying Agent

TRIETHANOLAMINE permits in many cases a simple yet certain method of preparing an emulsion. This new base has similar properties to ammonia but differs from it in several important respects, i.e., obtainable in liquid form with a high boiling point, only slightly volatile, very weakly alkaline, readily soluble in all organic liquids and possesses no corrosive action on the skin. Triethanolamine is a colourless liquid, viscous and hygroscopic; its density at 20° C. is 1.124; it has a boiling point of 277° C. at 150 m.m. (decomposes at higher temperatures). As a base triethanolamine gives stable salts with most acids although salts formed with weak acids are almost hydrolysed to a watery solution. The soaps obtained by combining this base with the fatty acids present characteristic properties, the oleate being the one generally employed. It is obtained by molecular combination of triethanolamine and oleic acid, the saponification taking place at ordinary temperature. The soap is viscous and of identical characteristics even if slight excess of either acid or base is used, that is, miscible with all organic liquids with the possible exception of certain heavy mineral oils and the glycerides of fatty acids. Other liquid soaps of triethanolamine are prepared in a similar manner. The stearate is prepared by the reaction of the base with the acid nearest to its point of fusion, the stearate so obtained being chiefly used for perfumery and wax emulsions on account of colour. The addition of 10 per cent. of the soap so obtained with the oil necessary to emulsify and vigorous shaking produces a homogeneous mass, that, on adding small proportions of water (shaking well after each addition) a creamy emulsion is formed, which as required can be further diluted to requisite thickness. There is another method that is stable and easily worked. A fatty acid in solution is mixed with a watery solution of triethanolamine, the resultant liquid being a spontaneous emulsion. In practice the fatty acid is dissolved in an oil to the extent of 6 per cent. to 20 per cent., taking into consideration the fatty acid present in the oil, and mixing this solution with a watery solution of triethanolamine in the proportion of 2 per cent. to 8 per cent. This with slight manipulation produces a satisfactory and stable emulsion. The following table indicates further relative proportions for producing emulsions that are in every way satisfactory even in a warm climate:—

Nature of product to emulsify	Proportions by weight				Dilution Per cent.
		Acid	Base	Water	
Olive oil ...	72	24	4	50	10
Castor oil ...	90	6	3	100	20
Paraffin Liq. ...	89	8.3	2.8	300	10
Stearic acid ...	87.3	95	5	400	10

All emulsions made with stearic acid and triethanolamine are neutral, thereby avoiding all skin irritation. Two typical working formulas that with little experience may be adapted to individual requirements are:—

Cold Cream		Lait de Beauté	
Liquid paraffin ...	40.00	White wax ...	15.00
Stearic acid ...	15.00	Oleic acid pure ...	20.00
Triethanolamine ...	5.00	Glycerin ...	35.00
Water ...	40.00	Almond oil ...	35.00
		Distilled water ...	300.00
		Borax 10% sol. ...	10.00
		Triethanolamine ...	5.00

When a thick emulsion has been prepared dilution should be carried out by stirring in water. —J. C. B. (12/28).

BRADFORD TECHNICAL COLLEGE.—An illustrated account of the Department of pharmacy at Bradford Technical College appeared in the "Yorkshire Evening News" on February 20.



## Trade Notes

**A NEW MEGGESON PRODUCT.**—Meggeson & Co., Ltd., have introduced a new line in the form of halibut-liver oil and malt squares with glucose. This preparation presents the vitamins A and D, without the nauseous taste associated with cod-liver oil. Messrs. Meggeson claim that



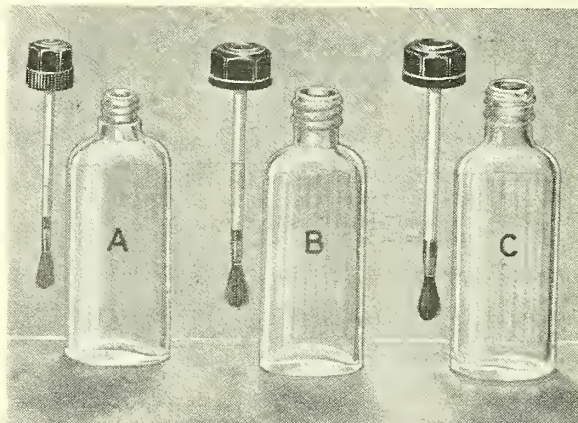
each tablet contains half a minim of halibut-liver oil of a well-known brand and has a vitamin A and D value equivalent to a dessertspoonful of malt and cod-liver oil. The presence of malt and glucose in this preparation makes it of special nutritive value for children, and it is so pleasant that there will be no difficulty in persuading them to take it.

**KORMEOL TABLETS** are advertised in this issue by Eroga Products, 226 Bishopsgate, London, E.C.2.

**PRICE REDUCTION.**—William Hay, Ltd., manufacturing chemists, 42 Walmsley Street, Hull, announce reductions in the prices of their Sun Tan oil. A sample of this product, which was extremely popular during the past summer, will be sent to chemists who are not already familiar with it.

**COD-LIVER OIL.**—Freudentheil, Smith & Co., 21 Mincing Lane, London, E.C.3, have sent us a sample of the new season's (1934) Lofoten medicinal cod-liver oil, which has just arrived from their Norwegian principals, Messrs. Brodr Aarsaether A/S. We find this oil of good pale sweet quality, and quite up to their usual high standard.

**M. J. FECHER, LTD.,** Cuckoo House, 10 Dod Street, Burdett Road, London, E.14, have drawn our attention to the bottles they supply for packing iodine, and these are illustrated below. Pattern A is the style sold hitherto



to and is still selling; patterns B and C are new. Pattern B is an improvement upon the old style A, having a wider opening, which facilitates filling and the replacement of the brush fitting when used; and the size of the cap being bigger, a larger brush can be sweated over a glass peg. Bottle C is fitted with a brush in a glass stem.

**CAMILATONE, LTD.,** Welsh Harp, Hendon, London, N.W.9, have reduced the price of their shampoos in bulk. Particulars of the alterations are given on another page in this issue.

**SOAPLESS SHAMPOOS.**—We have previously called attention to the soapless shampoo preparations introduced by The Butywave Co., 5 Rampayne Street, London, S.W.1, who have now sent us a sample of a liquid product specially intended for babies' hair. This is attractively packed, as will be seen from a photograph of the container and showcard reproduced.



**TONICINE.**—Coates & Cooper, Ltd., 94 Clerkenwell Road, London, E.C.1, are the British agents for a new gonadal tonic placed on the market by Reed & Carnrick (Canada), Ltd., under the name of Tonicine (male and female). Each kind is supplied only in 8 oz. bottles.

**COLOUR IN PHOTOGRAPHY.**—A new showcard which has been issued by Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C.1, illustrates one method of producing photographs in colours. The showcard, attractively printed in colours, presents a photograph of the French liner "L'Atlantique" on fire at sea, and is a fine example of the realistic results that are to be obtained by the use of Tabloid toners and Soloid stains. A specimen of this striking display-aid will be sent to any chemist on request.

**NUPHLOGENE DRESSING.**—Carnegie Brothers, Ltd., manufacturing chemists, 229 Essex Road, Islington, London, N.1, have brought out under the name of Nuphlogene a new antiphlogistic dressing. Among the advantages of this preparation over the ordinary kaolin poultice is that it is already spread. In referring to it Messrs. Carnegie state:—"In the past little or no notice has been taken of surface tension and its relation to the treatment of various maladies by antiseptic moist heat. Our study of this subject and the incorporation of results in a practical form has led to the introduction of Nuphlogene. . . . Protein capsulation protects the medicinal properties and ensures that the product, cut into thin



slabs of convenient size, reaches the patient clean and sterile. A further advantage of protein capsulation is that when the poultice is finished with, it can be removed from the patient in one clean piece." Nuphlogene is supplied in three sizes, 2 in. by 2 in., 3 in. by 4 in. and 6 in. by 8 in. as shown in the above illustration.



## Births

Notices for insertion in this column must be properly authenticated.

**WORSLEY.**—At Chasebank Nursing Home, Southgate, London N., on March 1, Doris Mabel, the wife of William Randall Worsley, chemist and druggist (Tanner's, chemists, Stratford, E.15), of a daughter.

## Marriages

**STANLEY—BROSTER.**—At Holy Trinity Church, Hoylake, Wirral, on February 26, by the Rev. Canon Warburton, George Edward Stanley, M.P.S., to Ethel Broster.

## Deaths

**CAMERON.**—At Cambuslang, on March 4, suddenly, Mr. Donald Cameron, chemist and druggist, Blantyre. Mr. Cameron qualified in 1920.

**GREGORY.**—At 12 Diamond Street, Saltburn, on February 26, Mr. John Gregory, retired chemist and druggist, formerly in business at Varo Terrace, Stockton-on-Tees, aged eighty-eight.

**EATON.**—On February 23, Mr. Robert Eaton, dentist, chemist and druggist, 47 Park Lane, Sandbach, aged sixty-six. Mr. Eaton, who was a native of Blackburn, carried on a pharmacy at Stafford Bar, Manchester, for some years. Subsequently he had a dental practice at Higher Broughton, in which he was succeeded on his retirement by his son, Mr. John Eaton.

**KIRKPATRICK.**—On March 2, Mr. Leonard A. E. Kirkpatrick, chemist and druggist, 29 Prince Regent Lane, Plaistow, London, E.13, aged forty.

**LEE.**—On February 28, at his residence, Bryn Estyn, Chester Road, Whitchurch, Shropshire, Mr. Leonard Lee, for many years in business as a chemist and druggist in High Street, Whitchurch, aged sixty-six. Mr. Lee took over the business of John Shone & Co. in partnership with the late Mr. Hands, and later became the sole proprietor. He was a prominent local and provincial Freemason.

**MAYS.**—On February 28, Mr. Frank Webb Mays, chemist and druggist, 26 Barking Road, London, E.6, late of Reading. Mr. Mays qualified in 1886.

**MICHIE.**—On March 1, suddenly, Mr. Charles Coutts Michie, J.P., chemist and druggist, 17 Brookfield Park, Highgate, London, N.6, aged seventy-six. Mr. Michie carried on business for a long period at 175 Kentish Town Road, N.W.1. He was appointed a magistrate in 1919. Mr. Michie is survived by a widow, two sons and three daughters.

**SCRUTON.**—At his residence, The Rise, Heslington Road, York, recently, Mr. Samuel Scruton, J.P., senior partner of Raimés & Co., manufacturing chemists, Micklegate, York, aged ninety. Mr. Scruton had been associated with Raimés & Co., since he was nineteen years of age, when he went to York from Manchester and joined the business as a junior assistant. In due time he became a partner, taking an active part in the business until his health began to fail some months ago. Mr. Scruton was pasture master of Bootham Stray (one of the city's ancient charities), city auditor for several years, a member of the York Adventurers Company and of the Chamber of Commerce. He leaves three sons and three daughters. The eldest son, Mr. Alfred Scruton, is a partner in Raimés & Co.

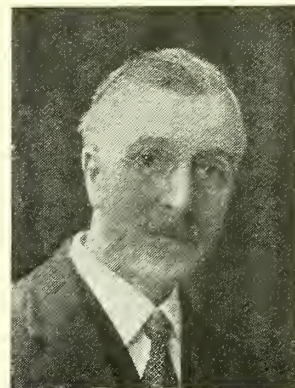
**TALLANTYRE.**—At his residence, 12 Pelham Grove, Liverpool, on March 2, Mr. John Mortimer Tallantyre, Ph.C., formerly of Evans Sons Lescher & Webb, Ltd., manufacturing chemists, aged seventy-two. Mr. Tallantyre retired from the directorate in 1926 after nearly forty years' association with the company. He was a member of the Liverpool Chamber of Commerce for many years, and had been a proprietor of the Liverpool Lyceum Club since 1892 and its president in 1914. He captained the West Cheshire Golf Club for two years.

## Personalities

**MR. E. O. GLOVER**, a delegate director of Imperial Chemical Industries, Ltd., was returned unopposed for North Runcorn in the Cheshire County Council elections.

At the recent annual general meeting of the Leeds Tradesmen's Benevolent Institution, Mr. W. P. Bowman, proprietor of Goodall, Backhouse & Co., Leeds, was re-elected vice-president for the ensuing three years. Mr. Bowman has for the past quarter century provided free the medicines prescribed for the pensioners.

**MR. RALPH PICKUP**, chemist and druggist, Blackburn, who has recently been elected president of the North-East Lancashire Branch of the Pharmaceutical Society, is the second generation of pharmacists in his family. His father qualified in 1872, and established the Bank Top business which is now carried on by his son. Mr. Pickup is a former president of the North-East Lancashire Chemists' Association. In addition to his practice as a chemist, he has a considerable connection as an optician.



MR. R. PICKUP

NOTICE is given in "The London Gazette" that Simon Levy, 141 Roundhay Road, Leeds, medical practitioner, has assumed the name of Simon Leigh by deed poll.

NOTICE is given in "The London Gazette" that Barnett Abelson, 17 Honiton Road, Kilburn, and 267 East India Dock Road, Poplar, chemist and druggist, has assumed the name of Barnard Barnett Abelson by deed poll.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc. occur.

### Tuesday, March 13

*Pharmaceutical Society of Great Britain*, 17 Bloomsbury Square, London, W.C.1, at 8.30 p.m. Fifth evening meeting. Mr. C. E. Corfield, B.Sc., F.I.C., Ph.C., on "The British Pharmaceutical Codex: Some Notes on its Revision."

*Eastbourne Pharmacists' Association*, 2A Terminus Buildings, at 8 p.m. Meeting.

### Wednesday, March 14

*Birkenhead and Wirral Pharmacists' Association*, Woodside Hotel, at 8.30 p.m. Supper, followed by address on "Fifty Years' Working of the Food and Drugs Act" by Mr. W. Johnston, Ph.C.

*Manchester Pharmaceutical Association, Junior Branch*, Roma Café, Corporation Street, at 8.30 p.m. Whist drive. Tickets, 1s. 6d. each (including refreshments) from Mr. R. B. Maskell, 122 Great Clowes Street, Salford.

*Pharmaceutical Society of Great Britain, Dundee and East and Central Scottish Branch*, and *Dundee Pharmacy Golf Club*, The Old Palais, Seagate, at 6.30 p.m. Annual whist drive, supper and dance. Tickets, 7s. 6d. each.

### Thursday, March 15

*London Chemists' Golfing Society*, Trocadero Restaurant, Piccadilly Circus, London, W.1. Annual dinner and dance, reception 6.30 p.m.

*National Association of Women Pharmacists*, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Miss Margaret B. Cross on "The Red Cross and its Voluntary Aid Detachments" (lantern lecture).

### Friday, March 16

*Edinburgh Chemists' Assistants' and Apprentices' Association*, 36 York Place, at 8 p.m. Dr. Graham on "Mesopotamia" (lantern lecture).



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ORANGE QUININE WINE

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ESTABLISHED 1820

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**THE C. & D. PRICE LIST FORMULARY, "P.L.F."**  
Price 2s. 6d. post free.

**DISEASES AND REMEDIES.** Price 5s., by post 5s. 3d.

**THE PHOTOGRAPHIC CHEMIST.** Price 3s. 6d., by post  
3s. 8d.

**THE "CHEMIST AND DRUGGIST,"** 28 Essex Street, W.C.2

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-  
hand suppliers of the undermentioned articles will be appreciated.

W/63. Basophile (anterior pi- tuitary injection)	G/63. Pottex cleaner (like petrol)
R/73. Bioklein	W/63. Simplex bathing caps
E/53. Eye lotion containing sal. seroglycerin. 5 per cent.	H/23. Schick razors (London agents)
C/28. Salus pine disinfectant	B/53. Sommel
	J/63. Vernol injection



# THE CHEMIST AND DRUGGIST

VOL. CXX. MARCH 10, 1934 NO. 2822

## An Important Election

As is generally known, nominations of candidates for vacancies occurring in May on the Council of the Pharmaceutical Society of Great Britain must be received before the April meeting of the Council. A disquieting fact is that up to the time of going to press with this issue we have not heard of any pharmacist being put forward as a challenger of those who will seek re-election. In our issue of November 15, 1930, we headed an editorial article on the Pharmacy and Poisons Bill with the question, "Do chemists mind what happens?" Apparently they did not, one even suggesting that everything in the shape of advocacy for pharmacy should be left to the late Sir William Glyn-Jones, who, it will be remembered, died in 1927. On October 21 last year we commended the new Act that had been evolved from the Bill to the attention of local associations throughout the country. Very little has come of the suggestion; but we must in fairness add that the National Pharmaceutical Union, at headquarters and in its branches alike, has shown timely alertness in preparing for certain developments that may arise in the working of the Act.

### Better Representation Needed

Although, as Mr. Mallinson significantly remarked a few weeks ago in North London, the Council of the Pharmaceutical Society is now "practically placed in the position of a Government department," there is still work—and important work—to be done for pharmacy at Bloomsbury Square. The vice-president of the Society, speaking at a dinner at Halifax on February 22 (*C. & D.*, March 3, p. 246), expressed a hope that "the time was not far distant when they would have an accession of younger men on the Council." It is regrettable that the provision of the Charter for the retirement of fourteen members of the Council annually was ever set aside in favour of the present system, as potential candidates of a good type are apt to be discouraged from coming forward in view of the small annual number of vacancies. But we see no reason why progressive pharmacists of active habit, if they have the requisite time to give, should not do their best to provide pharmacy with better representation in its newly constituted Council. This is a task which the League of Youth, successfully launched a few days since, may well take in hand. Incidentally, it may be hoped that the new, the conscripted members (if we may so call them) of the Society will be represented by one or more of their number at the coming election. But however that may be, we may recall the circumstance that of 13,835 voting papers sent out at last year's Council election only 5,911 were returned. This year the electorate is considerably more numerous; we hope that several good candidates will come forward and that the poll will be a much more representative one.

## Sudan Gum Acacia

CONSIDERABLE interest has been manifested in the general position of Sudan gum acacia during the past few weeks on account of the steady advance in shipment prices from origin. In January prices slumped and Kordofan cleaned sorts were sold down to 26s. per cwt. c.i.f. for the new crop for January/February and February/March shipments from the Sudan. This fall in value was mainly due to the very heavy arrivals from the collecting stations up to this period, as the following figures show:—

	1934 tons	1933 tons	1932 tons	1931 tons	1930 tons	1929 tons
Nov./Dec., 1933	2,624	1,085	2,182	2,378	1,759	1,410
January, 1934 ..	2,725	1,500	3,443	2,887	1,541	1,928

It will be observed that the arrivals in the Sudan during the first three months totalled 5,349 tons, against 2,585 tons at the corresponding period last year. The early promise of a substantial crop has not been fulfilled, and during February there was a marked falling off in arrivals on account of the unfavourable climatic conditions, which interfered with the collection of the gum. Correspondingly there has been an advance in values, and shippers have increased their prices all round. At the close up to 32s. per cwt. c.i.f. was wanted for February/March shipment, with a premium of 1s. per cwt. for April shipment, when freight rates are being raised by this figure. From the reports recently to hand, there is evidence that the arrivals at the collecting stations during the past three weeks have greatly diminished, and holders of gum are not willing sellers, except at increased prices.

### Future Indefinite

In some seasons it has often been found that a "bumper" early crop has resulted in a failure of the later crop, and some shippers are inclined to take this view of the present crop. This is merely conjecture on their part, as the gum crop is one long harvest, extending over several months, and the climatic condition is the main factor governing the situation. Briefly, as the crop varies from day to day in accordance with weather conditions, it is not possible to forecast the crop so early in the season. Therefore any reports estimating the future crop should be taken with reserve. The value, however, is a dominant factor in the collection, and to-day it is standing at an uneconomical level. If the natives receive such a small amount for their labour, the production of gum is likely to suffer, as the collectors will interest themselves in other and more remunerative produce. The present value is low, and in spite of general improvement in commodity prices during the past few months, this product has shown a steady decline in value, although consumption has been almost normal in the principal consuming countries. Whilst available stocks in this country are comparatively small, we understand that at the primary source there is a fairly heavy surplus, which is firmly held. Buyers will be well advised to watch the arrivals at origin during the next few weeks, as the future trend of the market will be governed by these arrivals. At present conditions are firm, and whilst we do not expect to see any substantial rise in prices we anticipate that the present figures may be maintained during the next few weeks. During the time the shipment market has been recovering there has been a fairly substantial business in re-sales, and we understand that these comparatively cheap offers have now mostly been cleared off the market.



# Pharmaceutical Society of Great Britain

## Council Meeting

THE monthly meeting of the Council was held at 16 Bloomsbury Square, London, W.C.1, on March 6 and 7. The President (Mr. John Keall) was in the chair.

### TUESDAY'S PROCEEDINGS

The following items were included among the business transacted by the Council on March 6:—

A letter was received from the secretary of the Ashton-under-Lyne branch forwarding a resolution to the effect that the fee payable for a licence granted by local authorities to sellers of poisons under Part 2 of the Act should not be less than the fee payable by authorised sellers of poisons for the registration of business premises. It was agreed that the Society's representatives on the Poisons Board should be asked to bear the proposal in mind when the fixing of the fee to be paid by listed sellers was under consideration.

A letter was received from the Privy Council Office enclosing a communication from the Belgian Ambassador stating that it was the intention of the Belgian Government to grant permission to pharmacists of certain foreign countries to use the description "pharmacien" (as distinct from practising pharmacy). It was proposed to limit this permission to pharmacists of countries prepared to grant a similar permission to Belgian pharmacists. The secretary was instructed to reply pointing out that the provisions of the Pharmacy Acts prevented a person who was not registered under those Acts using the title "pharmacist," and that it was therefore not possible to permit Belgian pharmacists not so registered to use the description "pharmacist" in Great Britain.

The Council made the following appointments to committees:—Sir Malcolm Delevingne, Law; Professor J. A. Gunn, Education; Mr. F. G. Hines, Education, Establishment, Benevolent Fund; Sir Humphry Rolleston, Publications.

It was decided to appoint a Public Services Committee to deal with the questions affecting pharmacists in the defence forces or holding civilian public appointments. The following were appointed members of the Committee, with power to co-opt:—The president and vice-president (*ex officio*), Sir Malcolm Delevingne, Mr. Hines, Professor Gunn, Mr. Peck, Mr. Rowsell, Mr. Skinner, Mr. Jenkin.

### DEATH OF THE KING OF THE BELGIANS

THE PRESIDENT, before proceeding with the regular business of the Council on March 7, made sympathetic reference to the death of the King of the Belgians. At his suggestion the Council decided to send a letter to La Nationale Pharmaceutique.

### WELCOME TO NEW COUNCILLOR

THE PRESIDENT next extended a cordial welcome to Mr. C. A. Noble, who was recently co-opted to the Council to fill the vacancy created by the death of Mr. Humphrey. Mr. Noble, he said, had served the Society in many ways and for many years. Among his activities he had acted as invigilator, and this and his other work for pharmacy had enabled him to accumulate experience, which coupled with his sound judgment would be of great service to the Council.

MR. NOBLE, returning thanks, said he greatly appreciated the warmth of the Council's welcome, and the honour they had done him in asking him to join the Council. It was over forty years since he entered pharmacy, and during thirty-seven of those years he was engaged in retail business. Any knowledge he had gained during that period he would gladly place at the disposal of the Council. He would do all he could to help in their deliberations. He trusted that his work would prove that he was worthy of the confidence they had placed in him.

### APOLOGIES FOR ABSENCE

THE PRESIDENT said he had received apologies for

absence from Sir Humphry Rolleston, who was taking the chair at a meeting of an important organisation, and from Mr. Hardy, who had been forbidden by his doctor to attend.

### ELECTIONS AND REGISTRATIONS

Forty-five persons were elected student-associates of the Society. There were no restorations. The registrar reported that 100 persons had been registered as apprentices or students.

### ANNUAL MEETING

The date of the annual meeting and election of the Council was fixed for May 16, the meeting to begin at noon.

### CORRESPONDENCE

A letter was read from Mr. C. A. Noble tendering his resignation as invigilator.

THE PRESIDENT said the Council would accept the resignation, and he proposed the appointment of Mr. R. H. Rowson, of Harrow. This was agreed to.

### HERBARIUM COMPETITION

One herbarium was submitted for the herbarium prize. Mr. T. E. Wallis reported that it was a very satisfactory collection, and recommended that a silver medal be awarded to Mr. Colin Melville.

### EDUCATION COMMITTEE

The report of the Education Committee showed that the Executive of the North British Branch had reported against the application to Scottish secondary schools of a similar rule to that whereby secondary schools approved by the Board of Education are approved institutions for the purpose of the Preliminary Scientific examination, as the conditions in Scotland differ materially from those in England. The Committee, therefore, would continue to require application to be made by Scottish schools desiring approval.

Two resolutions from the Anglesey, N. Carnarvonshire and Colwyn Bay Branch were remitted to the Committee by the Council. The terms of the resolutions were as follows:—(1) That lectures could be arranged for a vacation course to be given at Bangor University. (2) That Bangor University be used as a Centre for the Society's examinations. The Committee recommended that the branch be informed (a) that the Council cannot see its way to arrange a vacation course at University College, Bangor, but that every assistance will be given to the branch in any arrangements it may itself desire to make for such a course. (b) That the policy of the Council is not to approve any additional institutions for giving instruction for the Qualifying Examinations.

The Committee had decided to remove the name of Birkbeck College from the list of approved institutions following a request from the principal to that effect owing to the demand of University students on the limited accommodation available making it impossible for students to be taken for the Preliminary Scientific Examination.

In a supplementary report dealing with scholarships regulations the Committee recommended that the regulations be altered in accordance with the following proposals and that the Committee be authorised to draft new regulations embodying them:—

(1) Candidates to have passed the Preliminary Scientific examination. (2) Minimum age limit to be discontinued. (3) Subjects and syllabuses to be as drawn up by the Committee.

It was further recommended that candidates for the Jacob Bell scholarship and Nottingham studentships take certain papers, and that candidates for the Manchester Association scholarship, the Leverhulme scholarships and the Devon and Cornwall exhibition take another set of papers.

MR. SIMMONS criticised some of the proposals, pointing out that no maximum age was specified. The regula-



tion requiring an elementary knowledge of chemistry implied a knowledge of any simple substance used in pharmacy. Up to now the Society's students had not taken any organic chemistry, and the Manchester branch thought that the subjects should be restricted to those in which students had had some preparation. The regulations, too, were far too comprehensive as to what apprentices were required to know in regard to the laws affecting the Dangerous Drugs Acts and the Pharmacy Acts. With regard to the transfer of the Manchester scholarship to the Leverhulme syllabus, Manchester wishes should be considered. They in Manchester had an interest in the matter, and they felt that the cultural side should be developed, and that the knowledge of book-keeping which was stipulated and which was exceedingly difficult for an apprentice to obtain would be better left until after qualification. Many members regretted that they had not had the stimulus to keep alive the interest in cultural subjects, and had found themselves prejudiced all their lives to some extent through the lack of training in that direction. They felt that the Manchester scholarship should be left under the ægis of the Bell scholarship rather than transferred to the Leverhulme. He desired to move a resolution to that effect.

Mr. MELHUISE, seconding, said it was obviously the desire of the people in Manchester that the scholarship should not be transferred. That desire was perhaps surprising in an industrial centre, but showed that they preferred the cultural side rather than the business side which embraced book-keeping and business methods. With regard to other questions raised, so far as the Education Committee were concerned they had not lost sight of the fact that nothing more than could reasonably be set to a student should be set.

THE VICE-PRESIDENT pointed out that if they limited the regulations to inorganic chemistry they would not be able to ask any question on alcohol, chloroform and ether. He wished to remind Mr. Simmons that this was not a statutory examination, but one to enable them to find the best men in pharmacy that year. It did not matter if the examination was a little stiff or a little unexplainable. Students must read round the subjects, as the best men always did. They did not expect much alteration in the type of papers set by the examiners. As to which subjects should be included in the Jacob Bell and Manchester scholarships, he, as chairman of the Committee, had been entirely in favour of the Manchester suggestion, but there was a definite vote of the Committee that the Manchester scholarship should be classified with the Leverhulme, the argument being that there were so few candidates from the Manchester area who were eligible to receive the scholarship. The matter went to the vote of the Committee, and he thought it could be left to the Council.

Mr. MARNS supported Mr. Simmons, and said it was better for the students to know where they were going and not to have the loose phraseology which was in certain parts of the proposed regulations. Leaving the matter to the whims and fancies of the examiners was very dangerous.

The Council decided to leave the Manchester scholarship in its existing classification, an amendment proposed by Mr. Deacon that the whole matter be referred back being withdrawn. The report was then adopted.

#### BENEVOLENT FUND COMMITTEE

The report of this committee showed that nine applications had been considered, and grants made ranging from £15 to £39. The following special contributions were acknowledged by Mr. BEARDSLEY, who pointed out that the list was not quite as satisfactory as the Committee would like, but thanks were due to those who had helped the fund:—Hastings and St. Leonards Branch, £10 10s.; Brighton and Hove Branch, £10 7s. 1d.; Norwich and District Branch, £6 0s. 6d.; Kent Pharmaceutical Committee, £5 5s.; Stockport Branch, £5; T. Macmaster, Ltd., £2 15s. 9d.; Nottingham and District Branch, £2 8s. 6d.; Grimsby and District Pharmacists' Association, £2; J. H. Sharland, 14s.

#### WAR AUXILIARY BENEVOLENT FUND

The report of the Committee of this Fund showed that they had considered three applications during the month,

grants of £5 and £26 having been made, and they now recommended a grant of £200 in the third case. The report was adopted.

#### FINANCE COMMITTEE

The financial statement showed that the receipts since the last meeting, including a balance of £10 0s. 2d., amounted to £10,130 6s. 3d., comprising the following items:—Retention fees, £7,882 17s. 6d.; subscriptions, £121 5s. 6d.; registration fees, £254 2s.; restoration fees, £5 5s.; course in biochemical analysis, £5 5s.; examination fees, £147; Pharmacological Laboratories, £136 11s. 3d.; penalties and expenses, £92 11s. 1d.; rentals, £105; "Pharmaceutical Journal," £826 8s.; Quarterly Journal, £106 6s. 9d.; Registers, £14 5s.; "Forensic Pharmacy," £19 9s. 8d.; Calendar, £4 14s. 11d.; "Pharmaceutical Pocket Book," £299 8s. 5d.; B.P. Codex, £26 19s. 5d.; sundry publications, £50 4s. 3d.; insurance rebate, £4 3s.; F.S.S.U. contributions, £12 1s.; sundries, £6 8s. 4d. Payments ordered at the last meeting amounted to £7,406 12s. 5d., and £2,700 had been transferred to deposit account, leaving a balance of £23 13s. 10d. The balances on the other accounts were:—Benevolent Fund (current account), £22 6s. 11d.; Benevolent Fund (donation account), £37 12s. 5d.; War Auxiliary Benevolent Fund, £20 9s. 8d.; Orphan Fund, £12 15s. 11d. Accounts amounting to £6,076 6s. 3d. were passed for payment, and the action of the secretary in making payment amounting to £1,200 19s. 3½d. was approved. The report was adopted.

#### LAW COMMITTEE

The report of the Law Committee presented by Mr. MARNS stated that in England and Wales, since the last report, 502 shops have been visited; of these 389 were chemists' shops. In one chemist's shop no certificate was exhibited. At fourteen of the remaining 163 shops certain infringements of the Pharmacy Acts were reported. In Scotland, since the last report, 120 chemists' shops have been visited, in 119 of which certificates were exhibited.

This was all the public business.

#### Branch Meetings

**Bath.**—A meeting of the Bath and District Branch was held recently to consider the proposed regulations affecting practical training in shops. The proposals were favourably received, the members feeling that some stricter control over the training of apprentices was long overdue. The meeting, however, recommended that Clause 1 in the articles of pupilage be amended as follows:—" . . . to observe such rules as may, from time to time, with the approval of the majority of the branches, be prescribed under the regulations by the Council of the Pharmaceutical Society of Great Britain . . ." In clause 2 (i) the representative of the Society concerned should be the inspector under the Pharmacy and Poisons Act. In clause 2 (iv), the requirement that the apprentice should keep a record of his or her work should be deleted. In clause 2 (v) the second sentence beginning "For the purpose" should be deleted. In clause 2 (vi) opportunity for representation, preferably by the N.P.U., should be afforded either side, if any cases be considered by the Council. The following proposals were put forward as suitable for discussion at the Leeds delegates' meeting:—(1) The following scheme should be put into operation regarding the training preceding qualification:—(a) The whole of the college training to precede service with a chemist taking, say, a three-years' course and bringing the candidate to the age of nineteen or thereabouts; (b) this to be followed by service with a chemist for a period equivalent to two years or perhaps more, arranged between the chemist, student and Pharmaceutical Society, and qualifying certificate only to be presented at the completion of same. (2) In view of the changed conditions prevailing under the Pharmacy and Poisons Act, and the bringing into force of the matriculation standard for entrants, the chemists' services as regards both private practice and public health schemes should be more adequately remunerated, and a plan to further this aim should be



drawn up. (3) A plan should be devised whereby all those taking part in or assisting in the dispensing of medicines and the compounding of drugs should, where not qualified, be registered as apprentices or students under the Pharmaceutical Society.

**Bedfordshire.**—The eleventh annual meeting of the Bedfordshire Branch was held on January 31, Mr. G. L. Whitmore in the chair. The chairman said the past year had been an eventful one in the passing of the Pharmacy and Poisons Act. Locally several outings to pharmaceutical works had been enjoyed by the members, and the meetings held were interesting. He expressed the pleasures he had enjoyed during his year of office. The secretary's and treasurer's reports were read and approved. The following officers were elected:—*President*, Mr. G. N. Shelton; *Vice-President*, Mr. A. W. Morgan; *Secretary*, Mr. C. D. Smith; *Assistant Secretary*, Mr. E. H. Burroughs; *Treasurer*, Mr. R. C. Frank; *Committee*, Messrs. J. A. Turner, A. Hill, R. W. Noble, H. W. S. Wynter and the Misses Coleman and Henderson.

**Birmingham.**—A general meeting of the Birmingham and District Branch was held recently. The proposals affecting practical training in shops, made by the Education Committee of the Society, were the subject of a discussion, which was opened by Mr. Maurice Smith (chairman of the Branch). The following members were among those who spoke during the evening:—Dr. Bryant, Captain Bennison, Messrs. J. W. Cox, H. H. Thatcher, B. W. Shaw, W. J. Izon, S. C. Blore, A. R. Laing and C. T. Thonger. The following resolutions were passed:—"That this meeting agrees with the principle of control of apprenticeship, but is of the opinion that only such operations should be demanded which are within the scope of the ordinary business of the practising chemist and druggist"; "That this meeting urges that a uniform apprenticeship of not less than three years be required both from candidates of the Chemist and Druggist and Pharmaceutical Chemist examinations"; "That this meeting considers that the Preliminary Scientific examination should be passed before articles of pupilage are signed or exemption granted"; "That copies of these resolutions be sent to the local member of the Council (Mr. J. W. Atkinson) asking him to support them."

**Leeds.**—The Leeds and District Branch met on February 8, Mr. J. H. Gough presiding. The main business was approval of matters appertaining to the apprentices' training scheme, but before this was considered the meeting gave practically an hour to a vigorous debate on the subject of representation on the Branch Council on behalf of members from outside areas. The matter was raised by Mr. C. S. Challinor (Castleford), who had given advance notice of a proposed new rule as follows:—" (a) That in view of the fact that the area outside Leeds has over 40 per cent. of the Branch membership, the existing outside area representation on the Council is inadequate; (b) that at least once in four years the chairman shall be a member resident outside Leeds; and (c) that at least four but not more than six members of the Council shall be resident outside Leeds." After a debate the proposition was defeated by twenty votes to nine, some members refraining from voting. The meeting proceeded to consideration of the recommendations from the Education Committee of the Society in regard to practical training of apprentices in shops. The following amendments, suggested by the Branch Council, were approved:—Clause 2 (1): Delete "from time to time, if requested", the Branch preferring that the employer should be required to furnish information without request. Clause 2 (2): Delete the last eight words and substitute "He shall appoint some pharmacist member of his staff to undertake this work, but the responsibility shall rest with the employer." Clause 2 (3): Delete second sub-paragraph. At the end of paragraph 3 it was recommended that poisons be added to the storage list. Clause 2 (4): Add after "books of reference" the words "as shall be prescribed by the Society." The equipment as laid down in the existing Leeds apprenticeship scheme was suggested. Clause 2 (5): Delete "whether or not" and also "and whether or not under an appren-

ticeship scheme". To this clause add provision for a one-year's overlap as one apprentice was finishing his term and another starting. Except for purposes of this overlap the Branch disapproved of two apprentices to one pharmacist. It was resolved also to recommend the following additions to the rules for training in the shop:—Lay down (as in the Leeds scheme) standards for age, hours, wages and conditions; that one month's probationary period be introduced; that continuity of apprenticeship be provided for; and that branches shall co-operate with their local education authority in selection and placing of apprentices. Terms of agreement between Leeds Branch and the local Education Authority, in connection with the existing Leeds scheme, were ratified by the meeting.

**Manchester.**—A meeting of the Manchester and Salford Branch was held recently, Mr. H. Brindle in the chair. The meeting had been arranged to discuss the Society's proposals regarding practical training in shops. Mr. E. H. Simmons (a member of the Society's Council), in outlining the policy of the Education Committee of the Society, said the recommendations, if carried out, would help to raise the standard of training. They were anxious to receive suggestions from the branches. At present there were far too many apprentices being registered. No doubt the matriculation standard would help to reduce the numbers. In dealing with the length of apprenticeship, Mr. Simmons said that three years was little enough. Mr. Brindle said three-years' apprenticeship should be the minimum. The difficulty was that in many pharmacies too few of the galenicals were made, and unless the apprentice made, or saw them made, he did not remember them well. After a prolonged discussion the various clauses were agreed to, with one or two exceptions. The following resolution, proposed by Mr. W. E. Phillipson, was passed:—"That apprentices, before entering upon apprenticeship, shall have passed the Preliminary Scientific examination."

**Nottingham.**—There was a large attendance of members of the Nottingham and District Branch at a meeting, under the chairmanship of Mr. E. C. Carr, held recently. An address was given by Mr. R. R. Bennett, B.Sc., F.I.C., Ph.C., on *Recent Scientific Developments in Modern Pharmacy*. The address created great interest, and questions were raised by Messrs. Ball, Clay, Carr, Jackson and others. A hearty vote of thanks was accorded to Mr. Bennett on the proposition of Mr. B. A. Bull.

**Walsall.**—A meeting of Walsall Branch was held at the Stork Hotel, Walsall, on February 15. Apprentices had been invited, and also headmasters of local schools. Three members of the Wolverhampton Branch attended, and Mr. H. H. Thatcher was in the chair. Mr. T. Marns (member of the Society's Council) addressed the meeting on the proposed new *Conditions of Apprenticeship*. He referred to a forthcoming meeting in London in connection with the "Youth in Pharmacy" movement. He went on to describe the changes in apprenticeship since his early days and the changes in the examination system. Parents to-day were finding difficulty in placing their children in posts, even after passing a Matriculation examination, and in London few apprentices were being taken into pharmacy. Elsewhere it was different, and many apprentices were not receiving satisfactory training. He ascribed many failures in the Qualifying examinations to unsatisfactory apprenticeships. Under the proposed scheme, some form of inspection would be necessary to ensure training for the apprentice. He mentioned various proposals put forward. The draft rules were proposals for consideration by the branches, and would be considered later at a meeting of delegates at Leeds, when some decision would be arrived at. He then dealt with some aspects of the Pharmacy and Poisons Act, 1933. The meeting then considered the apprenticeship rules, the chairman first reading the draft. A resolution was carried by seventeen votes to four as follows:—"This meeting agrees that some limitation of numbers of apprentices, and further control of conditions, are required, but considers the present scheme unsuitable, as it does not meet present conditions." It was decided to call another meeting.



# Biological Standards in the B.P.

A JOINT MEETING of the Brighton and Hove Association of Pharmacy and the Brighton and Hove Branch of the British Medical Association was held at the Grand Hotel, Brighton, on February 22. There was a large attendance. Mr. J. E. Vickers (president of the first-named association) took the chair, and Dr. C. H. Hampshire gave an address on

## The British Pharmacopœia in Medical and Pharmaceutical Practice

### [ABSTRACT]

HE proposed to deal with the Pharmacopœia in relation to certain points of contact between the two professions. On the subject of doses he quoted the General Notice to the Pharmacopœia which conveyed that the Pharmacopœial doses were intended merely for general guidance, and could be exceeded at the discretion of the prescriber, and that it was the duty of the pharmacist or dispenser, when an unusually large dose appeared to have been prescribed, to satisfy himself that the prescriber's intention had been correctly interpreted.

Some noteworthy changes in dosage made in the 1932 B.P. were instanced. Referring to the introduction of the principle of units in dosage, he stated that the idea was already familiar in relation to such drugs as the antitoxins and insulin, but it had been extended in the Pharmacopœia to digitalis, pituitary and vitamin D. With regard to ergot, biological standardisation had not been adopted, but the preparations were standardised chemically on the basis of the alkaloid, ergotoxine. The new liquid extract had given rise to difficulties on account of the loss of strength on keeping and the deposition on dilution. He stressed the use of the powdered prepared ergot which was standardised and was also known to be active in respect of the newly discovered properties of ergot described by Dr. Chassar Moir. Thyroid was now standardised chemically to contain 0.1 per cent. of iodine in the form of thyroxine. In the National Formulary the dosage of the tablets was in terms of the pharmacopœial substance and a note was added explaining the relation of the new tablets to the old on the basis of the ratio 1:5. This could be only approximately correct, since the proportion of thyroxine in fresh thyroid must vary. Some manufacturers used other ratios, and there remained, in consequence, some confusion which could only be cleared up by adhering to the pharmacopœial article as the basis of dosage. Digitalis was now standardised in units based upon an International Standard. It had been necessary to declare, in the case of this important and active drug, that sanction could not be given for the use of a concentrated preparation. So-called concentrated infusions of digitalis were still quoted in the price-lists of certain manufacturers.

The lecturer then demonstrated a collection of specimens of the standard preparations used in biological assay, which had been lent by Dr. P. Hartley, the Director of the Department of Biological Standards of the National Institute for Medical Research. Some of these are held on behalf of the Permanent Commission on Biological Standardisation, appointed by the Health Committee of the League of Nations; others in connection with the control exercised in this country under the Therapeutic Substances Act. The Pharmacopœia contemplates the provision of equivalent standards by central institutions in the Dominions and other parts of the Empire where the Pharmacopœia has legal standing. The standard preparations are distributed to manufacturers free of charge on request. They have been prepared, in all possible cases, in the form of dry solids. They are kept in sealed tubes either *in vacuo* or in an atmosphere of pure dry nitrogen at a temperature of  $-4^{\circ}\text{C}$ . in the dark. Most of them have been prepared under the direction of an International Committee; the others are based upon international standards. They fall into two classes. The first includes those materials for

which it is possible to define a unit of activity, and the second includes those which are simply standards of minimum potency and maximum permissible toxicity.

### CLASS I

The standard substances for antitoxins and serums consist of the dried antitoxin or serum from horses immunised against the specific toxins. The units are defined as the specific activity contained in definite weights of the standard preparations, which, for the standards maintained in this country, are as follows:—Diphtheria antitoxin 0.198 mgm.; tetanus antitoxin 0.177 mgm. (this is one half of the unit which is official in the United States); gas gangrene antitoxin (perfringens) 0.266 mgm.; antidysertery serum (Shiga) 0.05 mgm.; antipneumococcus serum (Type 1)—provisional unit for Great Britain and the United States 0.088 mgm. *Old Tuberculin*.—The standard preparation is a liquid containing 50 per cent. of glycerin. *Pituitary (Posterior Lobe) Powder*.—The standard preparation consists of the fresh posterior lobes of ox pituitaries which have been extracted with acetone, and dried. The unit is the activity which can be extracted from 0.5 mgm. The standardisation for antidiuretic potency is under consideration. *Oestrus-producing Hormone*.—This consists of the hydroxyketonic form of the hormones usually obtained from the urine of pregnancy. It was prepared by mixing supplies obtained from France, Germany, Holland and the United States, distributing 20 mgm. quantities into ampoules, drying, filling with nitrogen and sealing. The unit is the specific oestrus-producing activity contained in 0.001 mgm. of the standard preparation. *Insulin*.—Five supplies were received from different sources and purified separately by conversion into picrates and reconversion into hydrochlorides. The hydrochlorides were mixed and twice converted into picrate and regenerated as hydrochloride. The final product was dried and sealed in ampoules of about 0.1 gm. The unit is the activity contained in 0.125 mgm.

*Vitamin A*.—The standard preparation is a pure specimen of carotene, which was prepared by bulking supplies received from seven different countries, purifying the mixture and distributing into ampoules which were sealed off in an atmosphere of nitrogen. The unit is the activity contained in 0.001 mgm. *Vitamin B<sub>1</sub> (anti-neuritic)*.—The standard preparation contains the vitamin which has been adsorbed on kaolin from a watery extract of rice polishings at pH 4.5. It was prepared at Batavia, Java. It is not so sensitive to temperature as the other standards, and may be kept at ordinary temperatures if protected from moisture. The unit is the activity contained in 10 mgm. as determined by the curative effect on polyneuritis in pigeons, or the maintenance of normal growth in rats. *Vitamin D*.—The standard preparation is a 0.1 per cent. w/v solution, in olive oil, of ergosterol which has been irradiated in ethereal solution. The unit is the Vitamin D activity of 1 mgm., and the supplies are distributed in brown glass bottles containing 10 c.c. which must be kept at temperatures below  $0^{\circ}\text{C}$ . *Digitalis*.—Before the 1932 B.P. was issued an international standard preparation was in existence, the unit being the activity contained in 100 mgm. It was thought that the supplies available might not be sufficient. A special British standard, therefore, was prepared from nine different samples of digitalis leaf. These were dried separately at  $55^{\circ}$  to  $60^{\circ}\text{C}$ ., mixed, dried again, distributed into vials each containing about 3 gm. and then dried at  $30^{\circ}$  to  $35^{\circ}\text{C}$ . at 510 mm. Hg. pressure for six days and sealed. The British standard preparation contains 3 per cent. of water, and the unit is the amount of activity contained in 79 mgm.

### CLASS 2

The standard preparations for which units are not stated include neoarsphenamine and sulpharsphenamine. These are dried powders which are carefully sealed and preserved under the conditions already mentioned. The



toxicity must not exceed that of the standard preparation by more than 20 per cent. *Ouabain* (g-strophanthin).—The International standard preparation contains 19.94 per cent. of water and is issued in 100 mgm. tubes. *British Standard Strophanthin*.—When it was decided that k-strophanthin should be described in the British Pharmacopœia, 1932, it was considered advisable to have a British standard preparation of k-strophanthin, in order to avoid any qualitative difference between the standard and the sample being tested. The standard preparation consists of a specimen of k-strophanthin which has been dried over phosphorus pentoxide and assayed against the international ouabain. It is issued as a solution in absolute alcohol containing 3.39 mgm. of anhydrous ouabain per mil (equivalent to 2 mgm. of anhydrous ouabain or 5 mgm. of B.P. strophanthin) in ampoules containing 1 mil.—*Tincture of Strophanthus*.—The standard preparation is a tincture made from *Strophanthus kombé* which has been carefully assayed by comparison with the international standard ouabain and adjusted so as to be equivalent to a 0.42 per cent. w/v solution of the international standard ouabain or a 0.33 per cent. w/v solution of anhydrous ouabain.

The lecturer stressed the use of the Pharmacopœia in prescribing, stating that it contained a collection of approved medicines selected by a Commission upon which the medical profession was represented by distinguished authorities. He sketched briefly the contents of the Pharmacopœia, indicating how each class of drug was adequately represented. The Pharmacopœia gave to pharmacists in practice authoritative statements on percentage solutions, pharmaceutical process such as percolation, maceration and sterilisation, and basic formulas for galenicals. The necessity for a pharmacy to be equipped with the apparatus required for the preparation of sterile solutions and for the storage of antitoxins and similar products was referred to. The equipment need

not involve more than a moderate capital expenditure, and the pharmacist should be entitled to recoup himself for his outlay. It should, at least, be possible to provide an autoclave, a hot-air oven and a cold storage cabinet.

### Discussion

MR. PLOWRIGHT asked for information as to the stability of tincture of digitalis and prepared ergot on keeping. He asked for suggestions as to the best method of keeping serums and antitoxins apart from an expensive refrigerator.

MR. BURGESS said there was still much doubt as to the prescribers' intention in prescriptions for thyroid.

DR. BROADBENT said that he was always most grateful for the help of the pharmacist in referring back prescriptions about which he was in doubt. He asked for an explanation of the purgation which tincture of strophanthus, B.P., 1932, was found to produce.

DR. PARRY referred to the friendly relations between physicians and pharmacists, and said that he hoped the chemists would not hesitate to query anything in his prescriptions about which there was any doubt.

MR. PADWICK said that one well-known firm was issuing two kinds of thyroid tablets, which placed him in some uncertainty when the name of the firm was indicated on a prescription.

DR. SUMMERHAYES, in proposing a vote of thanks to the lecturer, said that he always wrote "Thyroid. Sicc.," expecting that it would be understood that his dosage referred to the pharmacopœial article. He described the chemist as the doctor's best friend. Both chemists and doctors were being rapidly tied up with red tape, and he hoped that the renewed activities with regard to poisons would not mean an extension of that condition.

MR. MACKIE seconded, and DR. HAMPSHIRE made suitable replies to the questions raised and thanked the meeting.

## Festivities

### Dance at Ipswich

THE Ipswich Chemists' Hockey Club held a successful dance on February 28, when about 100 people were present. Spot prizes were presented, and altogether the function was a very happy one. The proceeds were for the funds of the Club. Matches arranged to be played during the last two weeks have had to be scratched on account of frost and snow.

### Newcastle Social Evening

ON February 22, a successful social evening was provided at the Crown Hotel by the ladies' committee of the Newcastle, District and Northumberland Branch of the Pharmaceutical Society, under the leadership of Miss Swinton. This consisted of bridge and whist drives, with a short interlude for music, followed by light refreshments. The evening was a complete success, and reflected great credit on the ladies who devoted so much time and care to the arrangements.

### "Old Cyanides" Reunion

THE first reunion this year of the London College of Pharmacy Old Students' Association, "The Old Cyanides," took the form of a supper-dance at Pinoli's Restaurant, Wardour Street, London, W.7, on February 28. There was an attendance of over seventy "Old Cyanides" and their friends, and great was their regret when the enjoyment ended at midnight. During the evening the president (Mr. C. W. Gosling) made a welcome announcement that the annual subscription was to be reduced.

### South of England College of Pharmacy

THE South of England College of Pharmacy held its annual social evening, given by the principal (Mr. H. Lucas, Ph.C., F.C.S.) to the students, on February 22, at the Avondale Hall, Clapham, London, S.W. A very pleasant evening was spent, about 200 being present.

During the proceedings Mr. Lucas was presented with a bridge set, on behalf of the staff and students. Miss N. Davis and Mr. T. Rawlins made the presentation. Mr. Lucas suitably responding. Mr. C. Beaven, Ph.C., and Mr. C. Kemplay, M.P.S., were the M.C.s.

### Walthamstow Whist Drive

THE annual whist drive of the Walthamstow and District Pharmaceutical Association, in aid of the Pharmaceutical Society's Benevolent Fund, was held at "Danecourt," Walthamstow, on February 22. Mr. W. Gray ably carried out the duties of M.C., and Mrs. Gray presented the prizes to the following winners:—*Ladies* (1) Mrs. Jones; (2) Mrs. Deeth; (3) Miss Cass; and (booby) Mrs. Glascoe. *Gentlemen* (1) Mr. Clark; (2) Mr. Mortimer; (3) Mr. Mayes. A special vote of thanks to the donors of the prizes and gifts was proposed by Mr. T. T. Leighton (chairman of the Association) and seconded by Mr. Arthur Mortimer.

### New Badge for the South-Western Association

THE annual dinner and dance of the South-West London Association was held at the Trocadero Restaurant, W.1, on February 21, the president (Mr. W. A. Shakerley) in the chair. Among those present were Mrs. Shakerley, the president of the Pharmaceutical Society (Mr. John Keall), Mr. E. Skues, Mr. and Mrs. S. V. Brown (Orridge & Co.), and Mr. E. Neville Browne (secretary). During the evening Mr. Keall, who is the founder-president of the South-West Association, presented the Association with a presidential badge and invested Mr. Shakerley with it. Mr. Shakerley, in acknowledgment, said there was no man living from whom they would rather receive such a gift than from the president of the Society. Mr. E. Skues (vice-president of the Association) submitted the toast of "The Pharmaceutical Society," and Mr. Keall responded. "The South-West London Chemists' Association" was proposed by Mr. G. S. Powell (Redhill), who spoke of the "wonderful" representation which the



South-West Association had on the Pharmaceutical Society's Council. Responding, Mr. Shakerley said that during the year the local Association had enlarged its sphere of influence. He welcomed Mr. Philip F. Rowsell chairman of the National Pharmaceutical Union. Mr. Shakerley also paid a tribute to the officers of the Association. "The Ladies and Visitors" was submitted by Mr. E. Neville Browne (secretary of the Association), and responded to by Mrs. Linstead. Musical items were contributed, and the proceedings ended with a dance.

### Staff Functions

THE annual staff dance of Francis & Co. (Wrexham), Ltd., chemists, was held on February 20, at the Mine-workers' Institute, when over 200 dancers spent a most enjoyable evening. The New Era dance band provided excellent music, and the caterers good fare. There were many prizes for lucky spot and other novelty dances. The arrangements were efficiently carried out by the ladies' committee and some of the male members.

### An Amusing Speech at Luton

THE eleventh annual dinner of the Bedfordshire Branch of the Pharmaceutical Society was held at the George Hotel, Luton, on March 1. Mr. G. N. Shelton (chairman of the Branch) presiding. Dr. J. W. Bone, in proposing the toast of "The Pharmaceutical Society," said: "If ever it is my fortune to have time to write any memoirs, I shall issue a warning against three groups of people—chemists, lawyers and civil servants. (Laughter.) There is a fourth group which is even more—I was going to say poisonous, but I had better say dangerous—and that is a small and elect group, the group of toxicologists. Most countries don't grow more than two or three, and they are deadly fellows. I am sitting on this Poisons Board, and this has the object which you yourselves managed since 1868 until last year. At the moment subcommittee 'A' has started its task of drawing up the poisons list, and we have had produced by these civil service fellows, who are the most alarming men in creation since the Borgias, a list as long as your arm. The other day we had coffee and common salt on the list of poisons, and we had a whole lot of other things which we don't generally consider poisons." Dr. Bone went on to speak of the five representatives of chemists on the Board, who, he said, together certainly knew everything, and if they did not know a thing the toxicologist did. Mr. John Keall (president of the Society), who was accompanied by Mrs. Keall, responded. Mr. F. H. Webb proposed "The National Pharmaceutical Union," and Mr. A. W. Morgan (a vice-president of the Branch) replied. The Mayor of Luton, who was accompanied by the Mayoress, responded for "The Ladies and Visitors," whose health was submitted by Mr. G. L. Whitmore (Bedford). Dancing followed the dinner.

### Liverpool Annual Dinner

ABOUT 100 people were present at the eighty-fourth annual dinner of the Liverpool Chemists' Association, held at the Adelphi Hotel, Liverpool, on February 28, the president (Mr. Harold Wyatt) in the chair. The principal guests of the evening were the Lord Mayor of Liverpool and the Lady Mayoress Mr. Herbert Skinner (past-president of the Pharmaceutical Society), Mr. P. F. Rowsell (chairman of the N.P.U. Executive), Dr. W. M. Frazer (medical officer for health for Liverpool), Mr. W. Gill Hodgson (secretary of the Liverpool Insurance Committee), Mr. J. W. Waterworth (president, Birkenhead and Wirral Pharmacists' Association), and Mr. J. B. Williamson (president, Wallasey Pharmacists' Association). Proposing the toast of "The Pharmaceutical Society," Mr. Wyatt remarked that the past fifty years had seen great changes in the provision for the education of aspirants to the profession of pharmacy. In earlier years young men had been left to pick up their education as best they might. Now, however, the Pharmaceutical Society provided very fully for the education of young people in the profession. Mr. Skinner, responding, said that the pharmacist's profession was part and parcel of the same healing profession to which the medical service belonged. The medical profession, indeed, could not do without the pharma-

cists, and the more the medical man and the pharmacist worked together the better it would be for the interests and the health of the community. Responding to the toast of "Our City," proposed by Mr. H. Humphreys Jones, the Lord Mayor said that there were indications that we had turned the corner away from depression. Proposing the toast of "The Liverpool Chemists' Association," Mr. Rowsell congratulated the Liverpool Association on having established themselves on a wide basis, covering the scientific, commercial and business sides of the profession. In a reply to the toast of "Our Guests," proposed by Mr. W. J. Tristram, Mr. Gill Hodgson, secretary of the Liverpool Insurance Committee, said that during the last twenty-one years the Committee had never had the least trouble with chemists as a body. The number of premises in which dispensing took place had doubled and was now 330. He expressed the hope that the public assistance committees would utilise the services of the pharmacists for dispensing work. Replying to the toast of "The Liverpool Chemists' Association," Mr. J. L. Hirst (past-president) said that under the new Act many new members would be added by compulsory membership, but most valuable work had been done under the old voluntary membership. Other speakers during the evening were Dr. W. M. Frazer and Mr. J. W. Waterworth.

### Bradford Annual Function

THE annual dinner and dance of the Bradford District Branch of the Pharmaceutical Society took place on February 28 at the New Victoria Ballroom, when a gathering of 110 guests was presided over by Mr. W. Fysh (vice-chairman of the Branch), in the absence of the chairman (Mr. F. E. Burdett). Among the guests were the president of the Pharmaceutical Society (Mr. John Keall); the Lord Mayor of Bradford (Captain A. W. Brown, M.B.E.); Mr. H. Richardson (principal of the Bradford Technical College); Dr. F. W. Eurich; Mr. J. H. Gough (chairman of the Leeds Branch); Mr. F. H. Swires (chairman of the Halifax Branch) and Mrs. Swires, and Mr. and Mrs. F. B. Hardcastle (Huddersfield Branch). Mr. W. Sutcliffe, proposing the toast of "The Society," said that when such big changes were being made it might have been advantageous to amend the name to "the Society of Qualified Chemists." The Government and the public alike would perhaps have a clearer idea then of the particular people with whom they were dealing. If, however, the old name was to remain he suggested that every qualified chemist should make a prominent and persistent display of the letters M.P.S., which could be taken by the public to stand for "Means Public Safety." He had little doubt that the change would prove highly beneficial and would become a fine weapon in striking at anything which might tend to make the chemist and druggist less of a professional man than he ought to be. The chemist who played the game and lived up to the ethics of a great calling had nothing to fear from the new conditions or new powers held by the Society. Mr. John Keall, responding, said the new conditions were going to bring about a definite improvement for pharmacy and pharmacists. The three great principles of education, benevolence and public safety, on which the Society was founded ninety-three years ago, remained the basic principles to-day. He congratulated Bradford Branch on its last year's contribution to the Benevolent Fund, averaging 4s. 3d. per head. Mr. Keall congratulated Bradford Technical College on the development of a splendid department of pharmacy. A toast to "The City of Bradford" was proposed in humorous terms by Mr. J. A. Sullivan. The Lord Mayor, responding, thanked the president of the Society for his kindly references to the Pharmacy Department at Bradford Technical College, a department of which Bradford was justly proud and one which would compare favourably, in equipment, staffing and results with any in the country. Replying to the toast of "The Visitors" (proposed by Mr. W. Fysh), Principal H. Richardson, of the Technical College, said Bradford education authorities valued the support given their Pharmacy Department by the Pharmaceutical Society and the consistent helpfulness over many years by the local chemists' organisation. Dr. F. W. Eurich also responded. A cabaret and dancing followed.



# Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 28 Essex Street, London, W.C.2."

## QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, March 13, on which day the samples will be posted. Students' reports will be received up to Saturday, March 24. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the fifth exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who have not passed in Chemistry in the Preliminary Scientific examination in Great Britain, in the Licence examination in the Irish Free State, or in Chemistry, Part I, in Northern Ireland, which fact *must be attested on their reports*. They will not be awarded to former winners of tournament prizes.

## Report on the February Analytical Exercise

THE powder distributed to students on February 6 contained one part by weight of ammonium ferrous sulphate, four parts of calcium phosphate, and five parts of magnesium hydroxycarbonate. The calculated composition of such a mixture is:—

Fe ... ..	1.2
Ca ... ..	15.5
Mg ... ..	12.7
NH <sub>4</sub> ... ..	0.4
SO <sub>4</sub> ... ..	4.0
PO <sub>4</sub> ... ..	24.5
CO <sub>3</sub> ... ..	23.5
OH ... ..	4.4
H <sub>2</sub> O ... ..	13.8

100.0

## PRIZES

The First Prize for the best analysis has been awarded to:—

J. K. IRVING, c/o Finlayson, 17 Gladstone Terrace, Edinburgh.

The Second Prize has been awarded to:—

R. B. B. WILLIAMSON, 21 Easter Road, Edinburgh.

**First Prize.**—Any scientific book that is published at a price not greatly exceeding fifteen shillings may be taken as a first prize.

**Second Prize.**—Any scientific book which is sold for almost seven shillings and sixpence may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the publisher, naming the book or books they select.

## MARKS AWARDED FOR ANALYSES

1.—*Correspondents who have not passed in Chemistry:—*

J. K. Irving (1st Prize)	97	Mul ... ..	64
R. B. B. Williamson (2nd Prize) ... ..	96	V. J. Rose ... ..	61
Salford ... ..	95	Pip ... ..	60
Nicotine ... ..	94	Fervidus ... ..	54
L. S. S. ... ..	86	Flick ... ..	50
E. J. Lax ... ..	82	A. E. Corker ... ..	40
Sperans ... ..	69	Mitosis ... ..	39
		Nautical ... ..	38

2.—*Correspondents who have passed in Chemistry:—*

Colvin ... ..	92	Phil-De-Vere ... ..	65
Salter ... ..	92	Pelham ... ..	47
711 ... ..	67		

## TO CORRESPONDENTS

**SALFORD.**—In testing for acidic radicals, the precipitate produced on neutralising with ammonia the solution in nitric acid to which silver nitrate had been added was yellow—not white—and it consisted of silver phosphate. In our analysis, both calcium and magnesium were present in the filtrate from the iron group and phosphate precipitate, whereas you reported magnesium only.

**E. J. LAX.**—Having detected the presence of the phosphoric acid radical, you should have employed one of the special methods applicable to phosphate mixtures that yield a precipitate with the reagents for the iron group. Omission to do this does not, however, explain why you missed the calcium.

**MUL.**—Since you report a curdy white precipitate on adding silver nitrate as a test for chloride, it seems almost certain that you added the reagent to a solution prepared by dissolving the powder in hydrochloric acid. The sulphuric acid radical should not have been overlooked.

# Trade-Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1934, p. 304.

(From "The Trade Marks Journal," February 28, 1934.)

- "JOHNSON'S REVIVING TONIC"; for tonic medicines for poultry (2). By Johnson Brothers, 26 Bagnall Street, West Bromwich. 546,419.
- "MITEX"; for disinfectants (2). By Spratt's Patent, Ltd., 58 Mark Lane, London, E.C.3. 547,319.
- "EBUS TEA," etc., on label design; for a medicated herb tea (3). By A. B. Crone-Meyer, "Ist," Raboisen 98, Hamburg, 1, Germany. 538,190.
- "SILF"; for a preparation for treatment of obesity (3). By the Silf Co., Ltd., 39 Shaftesbury Avenue, London, W.1. B543,062.
- "EMAX"; for medicinal liquid extract of cereals (3). By Vitamins, Ltd., 23 Upper Mall, Hammersmith, London, W.6. 546,106. (Associated.)
- "MEGENOL"; for medicinal pine oils and pine oil preparations (3). By W. G. Andrewartha, Ltd., 5 Hamilton Street, Sydney, New South Wales, and Megenol Concessions, Ltd., 5 Manor Row, Bradford. 545,577.
- "ANTELOBINE"; for internal tonic medicines (3). By Les Etablissements Byla, 26 Avenue de l'Observatoire, Paris. 545,604.
- "PENNANT"; for pills for treatment of piles (3). By The Pennant Chemical Products, Co., 3 High Street, Pen-y-groes, North Wales. 547,142.
- "LEV-E-COF"; for cough mixture (3). By A. Hutchins, 22 London Road, Brighton. 547,789.
- "RAYSEARCH"; for cough mixtures, stomach mixtures and preparations for catarrh and sunburn (3). By R. Smith, 2 Cliff Road, Newquay. 547,792.
- "THORAGEL"; for medicinal chemicals (3). By May & Baker, Ltd., Church Road, Battersea. 547,917.
- "EFFALKA"; for all goods (3). By Harwoods, Chemists, Ltd., 72 Wigmore Street, London, W.1. 547,829.



# Trade Report

Where possible scales of prices of chemicals are given for bulk down to small quantities. Prices recorded for crude drugs, essential and fixed oils and coal tar products are for fair sized wholesale quantities. Qualities of chemicals, drugs, essential and fixed oils, etc., vary, and selected brands or grades would be at higher values

## 28 Essex Street, W.C.2, March 8

THE demand in most markets continues to be limited and chiefly confined to spot goods. The general tone is about steady, although a number of products are tending to sag. In pharmaceutical chemicals keen prices are being quoted for CALCIUM LACTATE. Makers' reduced prices for CHLORAL HYDRATE are steady. The position of ASPIRIN and SALICYLATES is of interest, on which more information may be available at no distant date. As we go to press we are given to understand that ASPIRIN is to be reduced by twopenny; SALICYLIC ACID (B.P.) by one penny, and SODIUM SALICYLATE (B.P.) by fourpence per lb., and that the new scales of prices will come into operation this week-end. In the crude drug markets business has been mostly on small lines. AGAR is a point better for shipment. BUCHU is fully steady, and inquiry is sustained. CELERY SEEDS tend to advance. CHAMOMILES are nominal on a bare spot market, and supplies in bond are detained on the duty question. Norwegian COD-LIVER OIL is again dearer for shipment, and fishing results are poor. GUM ACACIA is steady and in fair demand. HENNA LEAVES are at very high prices on spot. Japanese MENTHOL is a point steadier but business is slow. PEPPERS have been active and are dearer on the week. SAFFRON is quoted dearer for shipment. STRAMONIUM LEAVES are very scarce on spot; supplies in bond. The white grades of TRAGACANTH have been in good demand; spot supplies now scarce. In the Wax markets values for all kinds of CARNAUBA continue to advance, and the shortage in some grades is acute. BEES' WAX has also been in fair demand, and values tend to advance. The essential oils markets have mostly been on the quiet side. BERGAMOT is quoted dearer forward. CASSIA is scarce on spot, with no shipment offers. Bourbon GERANIUM is easier for shipment. French Colonial ORANGE is steadier but there is not much inquiry. Sicilian hand-pressed LEMON is unsteady at cheaper figures for shipment. Japanese PEPPERMINT is quoted at a slight advance, with some forward business. Dutch CARAWAY is reported dearer for shipment. Fixed oils show some few minor alterations on quotation. PALM OILS are cheaper but now steady. American TURPENTINE has declined sharply. LINSEED OIL is steady but quiet.

A drug auction will be held on Thursday, March 15.

## Exchange Rates on London

The following is a list of the chief Continental and other exchange rates at the opening on Thursday morning:—

Centre	Quoted	Par	March 8	Value of the £
Amsterdam ...	Fl. to £	12·107	7·55	12/5½
Berlin ...	Mks. to £	20·43	12·81	12/5½
Brussels ...	Belgas to £	35	21·73½	12/5½
Copenhagen ...	Kr. to £	18·259	22·40	24/8
Lisbon ...	Esc. to £	110	109½	19/11
Madrid ...	Ptas. to £	25·22½	37½	29/6½
Milan ...	Lire to £	92·46	59½	12/10
Montreal ...	Dol. to £	4·86½	5·09½	20/11½
New York ...	Dol. to £	nominal	5·08	20/10
Oslo ...	Kr. to £	18·159	19·90	21/11
Paris ...	Fr. to £	124·21	77½	12/5½
Prague ...	Kr. to £	164·25	122	13/10½
Stockholm ...	Kr. to £	18·159	19·39	21/4½
Warsaw ...	Zloty to £	43·38	26½	12/5½
Zurich ...	Fr. to £	25·22½	15·70	12/6

Bank rate 2 per cent.

## Pharmaceutical Chemicals, etc.

A MODERATE business is recorded with the general tone steady. Creosote, B.P., is fully steady at the recent advance. Synthetic thymol is easier. Calcium lactate is quoted at slightly cheaper figures.

ACETANILID.—Market steady, business quiet: B.P. crystals and powder, 1s. 5½d. to 1s. 8d. per lb., as to quantity.

AMIDOPYRIN.—Dealers are doing a little spot business; forward prices continue dear, as follows: crystals, five cwt., 18s. 2d.; two cwt., 18s. 6d.; less than two cwt., up to 19s. 3d. per lb., with powder 2½d. per lb. extra. Some spot parcels may be slightly cheaper.

AMMONIUM BENZOATE.—The market continues to be quoted at about 3s. 4d. to 3s. 6d. per lb., as to quantity. Business slow.

AMMONIUM ICHTHOSULPHONATE.—Dealers' prices are maintained at the recent advance: one cwt., 1s. 7d., in 14 lb. tins; 1s. 8d., in 1 lb. tins; 1s. 11d., in 8 oz. tins; and 2s. 1d. per lb., in 4 oz. tins.

ASPIRIN.—Business quieter with values quoted unchanged but rather unsteady: home trade, ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d.; 28 lb., 2s. 11d.; 14 lb., 3s.; 7 lb., 3s. 2d. per lb. Export to Colonies and British Possessions: ten cwt., 2s. 9d.; five cwt., 2s. 10d.; one cwt., 2s. 10½d. per lb., f.o.b.; less than one cwt., 2s. 11d. per lb., ex works. Latest news in the Trade Report Introduction.

BARBITONE.—Some spot material may be slightly cheaper than current forward figures, as follows: spot, one cwt., 13s. 2d.; 56 lb., 13s. 4d.; 14 lb., 13s. 6d.; small parcels, up to 14s. 10d. per lb.

BISMUTH SALTS.—Makers' scales of prices continue very steady and tend to advance. Carbonate, cwt. lots, 7s. 8d. per lb.

BROMIDES.—A very fair inquiry with makers' and dealers' quotations unchanged: ammonium, not less than five cwt., 1s. 9d.; one cwt., 1s. 10d.; 28 lb., 2s. 1d.; smaller quantities, 2s. 5d. per lb.; potassium B.P. crystals and granular, not less than five cwt., 1s. 6d.; one cwt., 1s. 7d.; 28 lb., 1s. 10d.; smaller quantities, 2s. 2d. per lb.; sodium B.P., not less than five cwt., 1s. 8d.; one cwt., 1s. 9d.; 28 lb., 2s.; smaller quantities, 2s. 4d. per lb., without engagement. Special prices for larger quantities.

BUTYL CHLORAL HYDRATE.—Market steady, average business: spot, 14 lb., 8s.; 7 lb., 8s. 3d.; 1 lb., 8s. 6d. per lb., in 1 lb. bottles.

CAFFEINE.—Dealers' prices for Continental material to come forward, as follows: 250 lb., 6s. 6½d.; 100 lb., 6s. 8½d.; 50 lb., 6s. 11d.; less than 50 lb., 7s. 1d. per lb. Citrate, 250 lb., 5s. 5d.; 100 lb., 5s. 5½d.; 50 lb., 5s. 7d.; less than 50 lb., 5s. 8½d. per lb., net, carriage paid on minimum 50 lb. lots. Packages from 5 lb. and upwards free.

CALCIUM LACTATE.—Business continues on a fair scale; keen prices for bulk lots and values fractionally cheaper: spot, one cwt., 1s. 0½d.; 56 lb., 1s. 0½d.; 28 lb., 1s. 1½d.; smaller quantities, up to 1s. 4½d. per lb.

CHLORAL HYDRATE.—The scale of prices continues at last week's reductions: duty-paid crystals, in 14 lb. free containers, five cwt., 3s. 1d.; one cwt., 3s. 2d.; 28 lb., 3s. 3d.; 14 lb., 3s. 3½d. per lb.; 28 lb. jars, one penny per lb. extra.

CITRIC ACID (B.P. CRYSTALS).—Makers' quoted price for home trade continues at 9½d. per lb., less 5 per cent. discount, nominal and without engagement. Dealers' prices for foreign material continue at keen figures.

CREAM OF TARTAR.—British makers are quoting 99 to 100 per cent. material at 82s. per cwt., less 2½ per cent. discount, nominal and without engagement. The market is very steady.

CREOSOTE (B.P.).—Shortage of supplies available here continues with Continental, to arrive, costing in the region of 1s. 11d. per lb., landed, in demijohns. Small lots at higher prices.

HEXAMINE.—British-made free running crystals are quoted at keen prices: five cwt., 1s. 8½d.; two cwt., 1s. 9d.; one cwt., 1s. 9½d.; smaller parcels, up to 2s. per lb. Rough powder, 1s. 5d. to 1s. 6d. per lb., as to quantity. Foreign material barely competitive.

HYDROQUINONE.—Makers' scales of prices for one delivery and for contracts are steady at former figures.

IODIDES.—Makers' scales of prices continue about steady at former rates.

LACTIC ACID (B.P.).—A fair business in small lots: quantities in carboys, 1s. 4½d. to 1s. 5d.; in winchesters and bottles, 1s. 6d. to 1s. 10d. per lb., as to quantity and packing.

MERCURIALS.—Makers' scales of prices for these salts are fully steady at former figures.

METHYL SALICYLATE (B.P.).—Rather quiet with the market keeping fairly steady: ten cwt., 1s. 5d.; five cwt., 1s. 5½d.;



one cwt., 1s. 6d.; less than one cwt., 1s. 7d.; small quantities in bottles, up to 2s. per lb.

**METHYL SULPHONAL.**—Quotations for supplies to come forward continue at high rates: two cwt., 19s. 4½d.; one cwt., 19s. 10d.; 56 lb., 20s. 6d.; small parcels, 21s. 6d. per lb. Some spot, material may be at slightly cheaper prices.

**METOL.**—Average business being done in small quantities, market steady: 56 lb., 9s. 6d.; 28 lb., 9s. 9d.; 7 lb., 10s. 9d. per lb. in 7-lb. tins, bottles extra. Wholesale distributors' prices for small quantities would be dearer.

**PHENACETIN.**—As quoted, the market is fairly steady with rather more business moving: crystals or powder, five cwt., 3s. 7½d.; two cwt., 3s. 9d.; 56 lb., 3s. 10½d.; smaller parcels, up to 4s. 3d. per lb.

**PHENAZONE.**—Spot prices are closing up to the high rates quoted for material to come forward from the Continent: crystals, five cwt., 10s. 4d.; two cwt., 10s. 7d. and less, up to 11s. 2d. per lb., with powder 2½d. per lb. extra.

**POTASSIUM SULPHOGUAIACOLATE.**—Inquiry is slow, with quoted prices unchanged. Spot, 6s. 4d. to 6s. 6d. per lb., as to quantity.

**QUININE SALTS.**—Convention prices for these salts are keeping steady: sulphate, 2s.; bisulphate, 2s.; ethyl carbonate, 2s. 7½d.; salicylate, 2s. 8d.; phosphate, 3s. 1d.; hydrochloride, 2s. 6½d.; bihydrochloride, 2s. 9½d.; hydrobromide, 2s. 6½d.; bihydrobromide, 2s. 9½d.; valerianate, 3s. 5½d.; hypophosphite, 3s. 8½d.; alkaloid, 2s. 9½d. per oz., carriage paid on bulk quantities.

**SACCHARIN.**—The Convention price for 550 is 37s. 6d. per lb., duty paid, with rebates for quantities.

**SALICYLIC ACID (B.P.).**—Home makers' quoted prices unchanged; competition noted: ten cwt., 1s. 7½d.; five cwt., 1s. 8d.; one cwt., 1s. 8½d.; 28 lb., 1s. 9d.; 14 lb., 1s. 10d.; 7 lb., 2s. per lb. Latest news in the Trade Report Introduction.

**SALOL.**—Market remains very quiet: spot, crystals, two cwt., 3s. 10d.; one cwt., 3s. 11½d.; 56 lb., 4s.; smaller parcels, 4s. 3d. per lb.; powder, 2d. per lb. extra.

**SANTONIN.**—A small business in limited quantities with holders quoting round about £18 for kilo. parcels.

**SODIUM BENZOATE (B.P.).**—A very fair inquiry with the market competitive: cwt. lots, 1s. 7d.; smaller parcels, up to 2s. per lb.

**SODIUM DIETHYLBARBITURATE.**—Quoted values steady, average business: spot, one cwt., 13s.; 56 lb., 13s. 3d.; 28 lb., 13s. 6d., 14 lb., 13s. 9d.; 7 lb., 14s.; smaller parcels, up to 15s. per lb.

**SODIUM SALICYLATE (B.P.).**—Market is none too steady, business limited: home trade, powder, one ton, 2s. 0½d.; ten cwt., 2s. 1d.; five cwt., 2s. 2d.; one cwt., 2s. 3d.; 28 lb., 2s. 4d.; 14 lb., 2s. 6d.; 7 lb., 2s. 9d. per lb., with crystals one penny per lb. extra. Latest news in the Trade Report Introduction.

**STRYCHNINE SALTS.**—Makers' prices are as follows:—

	Under 16 ozs.	16 ozs.	35 ozs.
	Per oz. s. d.	Per oz. s. d.	Per oz. s. d.
Pure cryst. ...	2 7	2 5½	2 5
Pure precip. ...	2 6	2 4½	2 4
Arseniate ...	2 7	2 5½	2 5
Bisulphate ...	2 7	1 17½	1 11
Hydrochloride ...	2 4	2 2½	2 2
Hypophosphite ...	4 8	4 6½	4 6
Nitrate ...	2 2	2 0½	2 0
Phosphate ...	3 0	2 10½	2 10
Sulphate ...	2 3	2 1½	2 1

25-oz. tins free. Lower prices for contracts, with rise and fall clause.

**SULPHONAL.**—Dealers' prices for shipment continue at high figures: crystals, two cwt., 15s. 6d.; one cwt., 16s. 2½d.; 56 lb., 16s. 6d.; smaller parcels, up to 17s. 6d. per lb., with powder, 2d. per lb. extra. Spot might be slightly cheaper in some quarters.

**TARTARIC ACID (B.P. CRYSTALS).**—Home makers' quoted price is fully steady at 1s. 0½d. per lb., less 5 per cent. discount, nominal and without engagement.

**THYMOL.**—A slow business with quoted prices slightly easier: synthetic, fine white, one cwt., 4s. 10d.; 56 lb., 5s.; 28 lb., 5s. 1d.; 14 lb., 5s. 4d. per lb., ex ajowan seed, one cwt., 7s. 3d.; 56 lb., 7s. 4½d.; 28 lb., 7s. 6d.; 14 lb., 7s. 9d. per lb.

**VANILLIN.**—A very fair inquiry with quoted prices about maintained: ex guaiacol or clove oil, ten cwt., 14s. 6d.; five cwt., 14s. 9d.; three cwt., 15s.; one cwt., 15s. 3d.; 56 lb., 15s. 6d.; 28 lb., 15s. 9d.; 14 lb., 16s.; less, 16s. 3d. per lb.

## Crude Drugs, etc.

**AGAR.**—The shipment market is a point better and is steady; spot market dull: spot, Kobe, No. 1, 1s. 11d.; No. 2, 1s. 9d.; Yokohama, No. 1, 1s. 9d. per lb.; shipment, Kobe, No. 1, 1s. 7½d.; No. 2, 1s. 6½d.; Yokohama, No. 1, 1s. 5½d. per lb., c.i.f.

**BELLADONNA.**—Leaves, in bond, are offering at 60s. per cwt., with no interest shown on account of the duty. Good test root is nominal on spot.

**BUCHU.**—A sustained inquiry and fair sales, with values steady. Rounds, fair to good green, 9½d. to 10½d.; fair to medium, 8d. to 9d. per lb. Ovals, 7½d. to 7¾d. per lb., as to quality.

**CASCARA SAGRADA.**—Some few small orders, market steady: spot, 1933 peel, 36s. 6d. per cwt. for small parcels; shipment, 29s. 6d. per cwt., c.i.f., with stocks reported very limited.

**CELERY SEEDS.**—Business has been fairly brisk and the market tends to advance and is now up to 2s. per lb. for small parcels.

**CHAMOMILES.**—Spot values are nominal with the market cleared. One or two small lots taken out of bond to meet urgent requirements, on which 9d. per lb. duty paid.

**CLOVES.**—Business has been slow, with spot values fractionally cheaper. Zanzibar, spot, 5½d.; shipment, March-April, 5d. per lb., c.i.f.

The landings of Zanzibar in London during the week ended March 3 were 500, and the deliveries 20, leaving a stock of 3,949. From January 1 to date landings of Zanzibar have been 2,010 and the deliveries 583. Landings of Madagascar for the week ended March 3 were nil and the deliveries nil, leaving a stock of 859. From January 1 to date, landings of Madagascar have been nil and the deliveries 123 packages.

**COCONUT (DESICCATED).**—Values are maintained on a slow market. Spot, fine, 15s.; medium, 15s.; shipment, halves, March-April, 14s. 6d. per cwt., c.i.f.

**COD-LIVER OIL.**—Fishing reports from Bergen indicate further unsatisfactory results although good weather has been experienced. To March 5 catch amounted to 21,070 tons of cod and 12,380 hectol. of oil, compared with 30,198 tons cod and 17,955 hectol. of oil at the same date in 1933, and 29,302 tons of cod and 18,199 hectol. of oil in 1932. Finest Lofoten steam-refined non-freezing medicinal oil, 105s. per barrel, c.i.f. London. Spot, in small lots, 144s. per barrel, ex wharf, duty paid. Newfoundland, finest non-freezing medicinal oil, 132s. 6d. per barrel, ex store. British oil, non-freezing finest medicinal, steady at 120s. per barrel, c.i.f. London, duty free.

**COLCHICUM.**—Dealers are quoting root at about 47s. 6d. per cwt., and seed at 1s. 6d. per lb.

**COLOMBO ROOT.**—Spot supplies are available at about 25s. per cwt.

**DAMIANA LEAVES.**—The spot value is about 1s. 6d. per lb. for little parcels.

**ERGOT.**—The market is about steady, but on the quiet side. Spot, Spanish, 1s. 8d.; Portuguese, 1s. 7d. per lb.

**GELATIN.**—A moderate business is reported, with dealers' prices unchanged: German gold leaf, 2s. 4d.; silver leaf, 2s. 2d.; bronze leaf, 1s. 10d.; plain label, 1s. 8½d. French, gold leaf, 1s. 10d.; silver leaf, 1s. 8d.; bronze leaf, 1s. 6½d. per lb., in cwt. cases.

**GENTIAN.**—Dealers' prices for French root is in the region of 50s. per cwt., as to quantity. Business limited.

**GINGER.**—Values are slightly easier this week and business is quiet. West African, spot, 20s. 6d.; for arrival, 18s. 6d. per cwt., c.i.f. Jamaican, 80s. to 110s. per cwt., as to quality.

**GUM ACACIA.**—The market continues very steady, and a fair business is reported with any cheap parcels quickly taken up: spot, Kordofan, cleaned sorts, 35s. 3d.; bleached, 67s. 6d. to 72s. 6d. per cwt.; shipment, Kordofan, cleaned sorts, February-March, 31s. 3d.; April, 32s. 3d. per cwt., c.i.f. Editorial comment on p. 275.

**HENBANE.**—Dealers are quoting in the region of 60s. per cwt., c.i.f.

**HENNA.**—Spot value is nominal, with only isolated poor-colour parcels offering in the region of 50s. per cwt. Goods in bond not available although required, on account of the duty at present demanded.

**HONEY.**—A moderate inquiry is being dealt with, and spot supplies of Jamaican are held for former values. Pale set, 47s. 6d.; dark amber, 40s.; dark liquid manufacturing, 37s. 6d. per cwt.

**HYDRASTIS.**—Some few small spot orders. Spot, about 5s.; shipment, 4s. 3d. per lb., c.i.f.

**IPECACUANHA.**—The market continues steady with a moderate inquiry about. Matto Grosso, 4s. 4½d. to 4s. 6d. per lb., as



to quantity. Minas, spot, 3s. 9d. to 3s. 11d. per lb., as to quantity.

**LIQUORICE ROOT.**—Natural root is available at about £14 to £15 per ton, spot.

**LYCOPodium.**—Russian treble sifted is offering on spot from 2s. 9d. to 2s. 10d. per kilo.

**MENTHOL.**—The market is a little steadier this week but actual business is limited. K/S brands, 9s. 4½d. per lb. and less for bulk quantities; afloat, 8s. 3d.; shipment, re-sellers, January-March, 8s. 3d.; April-June, 8s. 4½d.; July-August, 8s. 6d. per lb., c.i.f. Japanese shippers are now quoting up to 8s. 11d., c.i.f.

**MERCURY.**—Market is steady, with average business being done. Italian-Spanish combine, shipment, 53 dollars per bottle, f.o.b., Continent. Spot, about £10 12s. 6d. per bottle, ex wharf.

**ORRIS ROOT.**—Some Florentine root is quoted on spot at 42s. 6d. per cwt.

**PEPPER.**—Following a sharp advance early on, values are now slightly easier but still show an increase on the week. Lampong, spot, 5½d.; shipment, March-May, 4½d.; April-June, 4½d.; May-July, 4½d., August-October, 5d. per lb., c.i.f. Aleppy, spot, 5½d.; shipment, March-May, 4s., c.i.f. Tellicherry, spot, 5½d.; shipment, March-May, 4s., c.i.f. White Muntok, spot, 8½d.; shipment, March-May, 7½d.; April-June, 7½d.; May-July, 7½d., c.i.f.; July delivery, 8½d.

**PIMENTO.**—Spot is dull and a point easier; shipment steady; spot, 3½d. per lb.; afloat, 26s.; March-May, 26s. 6d. per cwt., c.i.f.

**RHUBARB.**—Bold Shenshi is in short supply on spot and fully 4s. to 4s. 3d.; rough round, high dried, 1s. 2d. to 1s. 3d. per lb. Chinese Rhapsodia, 6d. to 7d. per lb.

**RUBBER.**—Business has been on a fair scale and values have advanced, closing fully steady. Standard ribbed smoked sheet, spot, 5½d.; March, 5½d.; April, 5½d.; May, 5½d.; June, 5½d.; July-September, 5½d.; October-December, 5½d. per lb.

**SAFFRON.**—Dealers' prices have advanced on dearer quotations from the source: spot, prime B.P., 56s.; extra B.P., 54s. 6d.; super B.P., 51s. 6d. per lb., and slightly less for bulk quantities.

**SARSAPARILLA.**—A limited business with the market unchanged: spot, native mixed colours, 1s. to 1s. 1d.; grey Jamaican, 1s. 8d. to 1s. 9d. per lb., as to quantity.

**SEEDS.**—ANISE.—Spot, duty paid, Spanish, 62s. 6d.; Bulgarian higher, 45s. CARAWAY.—Dutch on spot can now be bought at 45s., duty paid. CORIANDER.—Very little interest shown in this article at the moment: quoted at above 19s. 6d. in bond; 21s. duty paid; for shipment, 17s. 9d., c.i.f., no Morocco offering. CUMIN.—Malta on spot firm at 67s. 6d.; no Morocco offering. FENUGREEK.—Spot remains unchanged at 13s. 6d., duty paid; shipment much dearer, 11s. 9d., c.i.f., now quoted only. MUSTARD.—English, 19s. to 27s. 6d., according to quality.

**SENEGA.**—Very little interest shown in this product: spot, about 1s. 4½d.; shipment, 1s. 3½d. per lb., c.i.f.

**SENNA.**—There has been a satisfactory business this week, both for home and export. Tinnevely leaves and pods are quoted unchanged, and all grades of Alexandrian are fully maintained at recent better rates.

**SHELLAC.**—The market is steady and business has been fair. Spot, standard TN orange, 86s. to 91s.; fine orange, 100s. to 130s.; pure button, 102s. 6d. per cwt. For delivery, TN, March, 89s.; May, 90s. For arrival, March-April, 82s. 6d. per cwt., c.i.f.

**STRAMONIUM LEAVES.**—There are very few lots available on spot and prices are firm at 85s. to 90s. per cwt.

**SIROPHANTHUS SEED.**—Small spot parcels are being quoted at about 4s. 9d. per lb. for 100 per cent. Kombé.

**TOKKA BEANS.**—Para, fair frosted, are very scarce on spot, and nominal at 3s. per lb.

**TRAGACANTH.**—There has been a good steady sale in the white grades with the finest qualities scarce. Firsts are fully £28; second grades moving well at £23 to £24 and in limited supply; fourths have been inquired for now and again at £14 to £16 per cwt. There is still but small interest shown in the manufacturing grades.

**TUBA ROOT.**—There has been a fair business with prices for good test root from 8½d. to 9d. per lb.

**VALERIAN ROOT.**—Belgian root is being quoted on spot at about 55s. per cwt.

**WAX (VARIOUS).**—All these markets are firm with values still moving up. CARNAUBA: Fatty grey, firm with very few offers from origin; re-sellers quoting slightly under shipment; 102s. 6d., duty paid; 93s. in bond and shipment, March-April and April-May, 93s. 6d. per cwt., c.i.f. Chalky grey is

nominal on spot, with nothing available; shipment, 87s. 6d., c.i.f. Primeira has been of more interest: spot, 155s., duty paid; 142s. 6d. in bond; re-sellers, afloat, 142s. 6d., c.i.f.; shipment, 145s., c.i.f. Mediana is nominal on spot, with nothing offering; latest shipment offers at 135s., c.i.f. BEES: These markets are all firmer and business is being done on a good scale. Dar-es-Salaam, spot, 95s.; bids of 92s. 6d. for shipment not accepted this week. Benguela is very scarce on spot; shipment now up to 86s., c.i.f. Abyssinian, 95s., spot, and 86s. 6d. per cwt., c.i.f., for shipment.

### Essential Oils, etc.

SOME movements in value are recorded this week. Bergamot is dearer forward. Cassia is firm and scarce on spot. Bourbon geranium is cheaper forward. Very fair inquiry for West Indian lime. Sicilian lemon has become unsteady and is cheaper forward. Dutch caraway is dearer for shipment. Japanese peppermint is a little better. Business generally is only moderate.

**ALMOND.**—English-made oil, cwt. lots, 2s. 6d.; smaller parcels, up to 2s. 8d. per lb. Foreign, cwt. lots, 2s. 4d.; smaller parcels, up to 2s. 7d. per lb.

**ANISE (STAR).**—Market is steady at former rates; business quiet: spot, "Red Ship," in leads, 1s. 10½d.; in tins, 1s. 8½d.; in drums, 1s. 7½d.; shipment, in leads, 1s. 8½d.; in tins, 1s. 7d.; in drums, 1s. 6½d. per lb., c.i.f.

**APRICOT KERNEL.**—British makers are quoting cwt. lots at 1s. 4d. and smaller parcels, up to 1s. 6d. per lb. Market is quiet.

**BERGAMOT.**—The shipment market for genuine oil is rather better, and now at 6s. to 6s. 4d. per lb., c.i.f. Business, however, is negligible. Spot oil, as to quality and quantity, 6s. to 6s. 6d. per lb.

**BOIS DE ROSE.**—Business has been very slow again. Brazilian, spot, 4s. 5d. to 4s. 6d. per lb., as to quantity; shipment, about 4s. 3d. per lb., c.i.f.

**CAJUPUT.**—The demand is limited. B.P. 1932 oil, 2s. 1½d. to 2s. 4½d.; green, 1s. 10d. to 2s. per lb., as to quantity.

**CANANGA.**—Small spot parcels are quoted at 8s. 4d. to 8s. 6d. per lb.; shipment, 6s. 5d. to 6s. 6d. per lb., c.i.f., with very little inquiry.

**CARAWAY.**—We are advised that shipment prices for Dutch rectified are dearer, and would now cost 9s. 3d., landed, for fair quantities; crude, 8s. 10d. per lb., landed.

**CASSIA.**—Good-quality oil on spot in leads is difficult to locate and is nominal at 3s. 10½d. per lb.; shipment is nominal at 3s. 2½d., c.i.f., but there are no offers.

**CEDARWOOD.**—Inquiry does not amount to much. African oil, in drums, is cheaper at 1s. 4½d. and 1s. 6d. in tins, spot. American, in drums, about 1s. 6d., and shipment, 1s. 3½d. per lb., c.i.f.

**CINNAMON LEAF.**—Business has been disappointing, with spot oil quoted from about 2s. 10d. to 3s. 2d. per lb., as to quantity.

**CITRONELLA.**—The Ceylon oil is a point easier on a slack market; shipment in fair quantities, 1s. 2½d. per lb., c.i.f. Java is also meeting with poor inquiry, with shipment fairly steady at 1s. 4½d. per lb., c.i.f.

**CLOVE.**—Madagascar oil is quoted at about 3s. 4½d. to 3s. 6d. per lb., spot, as to quantity; shipment, about 2s. 4d., c.i.f. English-made B.P., 3s. 8d. to 3s. 10d. per lb., with other producers quoting slightly lower figures.

**EUCALYPTUS.**—Rather more inquiry with the market steady. Australian, 70 to 75 per cent., 1s. to 1s. 1d.; 80 to 85 per cent., 1s. 1d. to 1s. 1½d. per lb., landed. Spanish, 70 to 75 per cent., 1s. 2d. per lb.

**GERANIUM.**—The shipment market for Bourbon has been slack, and the quotation is easier at 21s. 3d. per lb., c.i.f., for genuine oil. Spot prices vary as to quality. Algerian continues firm at 24s. per lb., c.i.f.

**GINGERGRASS.**—Prices are about maintained, business small. Spot, 4s. 9d. to 5s.; shipment, 4s. 3d. per lb., c.i.f.

**JUNIPER BERRY.**—A little inquiry with prices varying from about 2s. 9d. to 3s. 3d. per lb., as to quality and quantity.

**LAVENDER.**—Genuine oil on spot is steady in the region of 14s. 6d. to 15s. per lb., and shipment would be rather dearer for the best 38 to 40 per cent. There are, however, offers on spot at much cheaper prices.

**LEMON.**—Inquiry for shipment remains poor, with Sicilian hand-pressed easier at about 3s. 3d. to 3s. 6d. per lb., c.i.f., as to brand and quantity. Spot oil is mentioned at about 3s. 10d. to 4s. per lb. Californian oil, in large drums, 48 cents; in small drums, 49 cents per lb., spot.

**LEMONGRASS.**—The market has remained slack, but values are maintained. Spot and for shipment, about 4s. 1d. per lb.



**LIME.**—There has been quite a good inquiry this week for West Indian oil, and shipment prices are steady.

**MANDARIN.**—Dealers are quoting finest quality oil from 14s. 6d. to 15s. 3d. per lb., as to quantity, spot.

**ORANGE.**—Reports from origin indicate the shipment prices for reliable brands of French Guinea oil are rather dearer, but still at comparatively cheap prices. Sicilian sweet, shipment, 5s. to 5s. 2d. per lb., c.i.f. Spot, about 5s. 4d. to 5s. 6d. per lb. Californian, spot, one case, 61 cents; two or more cases, 56 cents per lb., spot.

**ORRIS.**—British makers continue to quote concrete from 15s. to 19s. 6d. per oz., as to quantity.

**PALMAROSA.**—Business has been of small account. Spot, 6s. 2d. per lb.; shipment, 5s. 6d. per lb., c.i.f.

**PATCHOULI.**—The spot value for Singapore is inclined to be steadier at 6s. 6d. to 6s. 8d. per lb. for small lots. English-made oil, 20s. per lb.

**PEPPERMINT.**—Market is a little better this week, with some inquiry forward. Japanese, spot, 3s. 1½d. to 3s. 2d. per lb.; shipment, January-March, 3s. 1d.; April-June, 3s. 3d.; July-August, 3s. 4d. per lb., c.i.f., from re-sellers. Japanese shippers now quoting up to 3s. 6d., c.i.f. The American natural oil is in small demand for shipment; quoted at about 2 dollars 60 cents per lb., in drums, c.i.f.

**PETITGRAIN.**—This market is still dull and values are again a point easier. Spot, 4s. 1d. to 4s. 2d.; shipment, 3s. 6d. per lb., c.i.f.

**PINE.**—Dealers are quoting Siberian, 35 per cent. minimum bornyl acetate, at 3s. per lb.; 30 per cent., 2s. 8d. per lb.

**ROSEMARY.**—Spanish oil of reliable quality is quoted from 1s. 9d. to 2s. per lb., spot, as to quantity. A limited business is reported.

**SANDALWOOD.**—Genuine East Indian Mysore, 20s. per lb. British-made East Indian, 22s. 6d. to 25s. per lb., as to quantity. English-made West Indian, cwt. lots, 6s. 9d.; 56 lb., 6s. 10½d.; 14 lb., 7s. per lb.

**SPEARMINT.**—Business of small account. Spot, about 6s. 3d.; shipment, about 5s. 3d. per lb., c.i.f.

**SPIKE.**—Spot values continue well under the shipment quotations. Spot, from 4s. 3d. and upwards per lb.; shipment, genuine oil, about 5s. per lb. French, on spot, about 7s. 3d. to 7s. 4d. per lb.

**WINTERGREEN.**—Dealers are quoting small quantities in bottles at about 6s. 3d. per lb.

**WORMSEED.**—Occasional small business; quoted unchanged. Spot, about 9s.; shipment, 7s. 9d. per lb., c.i.f.

### Fixed Oils, etc.

BUSINESS has been limited in volume in most products, with the tone fairly steady. Linseed oil is a good market. American turpentine is quoted cheaper. Palm oils are steady at the lower values quoted. **ACID OILS.**—Market is unsteady and business is slow: coconut and/or palm kernel, 16s.; groundnut, 15s. 9d.; soya, 14s. 9d., spot. **CASTOR.**—Values are being maintained, business is moderate: pharmaceutical, 38s.; first pressings, 33s.; second pressings, 30s. (barrels); cases £4 per ton extra, ex nullis, Hull, in not less than one-ton lots; Bombay, 24s. 6d. (drums), c.i.f. **COCONUT.**—Quoted slightly easier for deodorised with Ceylon mill at a low figure: deodorised, 25s. (barrels), spot; Ceylon, 13s. 10½d. (drums), c.i.f. **COTTON.**—A limited business with quoted prices about level on the week: deodorised, 20s. 3d.; common edible, 18s. 9d.; soap-making, 17s. 6d.; crude, 15s. 3d. (barrels), spot. **GROUNDNUT.**—Market is dull and quoted slightly easier: deodorised, 25s. 6d. (barrels), spot; crude Oriental, 19s. 1½d. (drums), c.i.f. **LINSEED (RAW, NAKED).**—Business has been fair and the market is steady as quoted: on spot, 20s. 6d.; March, 18s. 10½d.; March-April, 19s.; May-August, 19s. 4½d.; September-December, 19s. 10½d. per cwt. Boiled oil, spot, 22s. 6d. **OLIVE.**—Dealers' prices are steadily maintained, business fair: edible, in tins in cases, 72s. 6d. per case of ten gallons; B.P., 5s. per gallon, in 40-gallon barrels. **PALM.**—The market has been rather quiet, but is steady at the lower values now quoted: Lagos, 13s. 7½d., shipment; softs, 12s. 6d., shipment; mediums, 13s. 4½d., shipment; hards, 14s., shipment; bleached, 17s., spot. **PALM KERNEL.**—The market is steadier at the lower values quoted, business quiet: deodorised, 24s. 3d.; crude, 16s. 6d., spot. **RAPE.**—Occasional business, market about steady. Refined, 28s., spot; crude, 26s. 6d., c.i.f. **RFSIN.**—Values continue steady at the recent advance; B, 15s. 3d.; D, 15s. 6d.; F/G, 15s. 9d.; N, 16s. 3d.; W/G, 16s. 6d.; W/W, 16s. 9d. per cwt., ex wharf. **SOYA.**—Values are easier on the week, business quiet: deodorised, 23s. 9d.; crude, 10s. 6d., spot. **TURPENTINE, AMERICAN.**—The market has been dull and values have weakened: total London stocks, 15,749 barrels; on spot, 49s.

## Commercial Notes

**INDIAN CHEMICAL IMPORTS, APRIL-SEPTEMBER, 1933.**—Total value was Rs. 126½ lakhs, compared with Rs. 141½ lakhs for the previous six months.

**INDIAN SOAP IMPORTS, APRIL-SEPTEMBER, 1933.**—Total value was Rs. 37½ lakhs and the quantity 148,180 cwt., compared with Rs. 48 lakhs and 164,980 cwt. for the previous six months. The U.K. shipments were 114,958 cwt. (Rs. 31 lakhs), compared with 142,681 cwt. (Rs. 41½ lakhs) for the previous six months.

**INDIAN IMPORTS OF DRUGS AND MEDICINES, APRIL-SEPTEMBER, 1933.**—Total value of imports was Rs. 83.44 lakhs, compared with Rs. 83.57 lakhs for the previous six months. The following were the chief items:—

	1932-33 Rs. (lakhs)	1933-34 Rs. (lakhs)
Camphor	12	11
Proprietary and patent medicines	17½	15½
Quinine salts	11½	14½
Saccharine	1	1½
Unenumerated items	39½	39½

**U.S.A. PEPPERMINT OIL EXPORTS.**—Shipments during 1933 totalled 235,000 lb., as compared with the record quantity of 263,000 lb. shipped in 1932. In 1933 47 per cent. of the crop was exported, compared with 62.8 per cent. in 1932, 33.6 per cent. in 1931 and 21.1 per cent. in 1930. During the years 1930 to 1933 there has been a considerable curtailment of production, with the output for 1930 at 1,103,000 lb., and 411,000 lb. in 1932 and 503,000 lb. in 1933. Exports, in quantities and values from 1922 to 1933, were as follows:—

	lb.	\$	lb.	\$
1922	129,000	299,000	1928	177,000 604,000
1923	123,000	366,000	1929	222,000 795,000
1924	177,000	847,000	1930	233,000 700,000
1925	68,000	776,000	1931	230,000 438,000
1926	68,000	571,000	1932	263,000 455,000
1927	213,000	833,000	1933	235,000 567,000

**NEW GUINEA EXPORTS OF DERRIS ROOT.**—According to the Bulletin of the Imperial Institute, shipments for the years 1930 to 1932 and for the period January-August, 1933, were as follows:—

	1930 tons	1931 tons	1932 tons	January-August 1933 tons
Malaya	55½	74½	167	350½
British North Borneo	34½	25	(a)	(a)
Sarawak	735	108	37½	(a)
Sumatra	3	8½	2	(a)
Dutch Borneo	3	4	1½	(a)

(a) Not available.

In 1932, of the root exported from Malaya approximately 40 per cent. was shipped to the United Kingdom, 24 per cent. to the United States and 20 per cent. to Japan.

**CEYLON PAPAIN EXPORTS.**—According to the Bulletin of the Imperial Institute, shipments from Ceylon for the years 1928 to 1932 were as follows:—

To	1928 lb.	1929 lb.	1930 lb.	1931 lb.	1932 lb.
United Kingdom	11,054	9,265	12,927	14,596	16,022
France	2,753	1,069	4,141	2,056	1,555
Germany	—	908	867	415	512
Holland	—	10	—	—	—
United States	111,877	117,211	61,403	59,880	45,575
Belgium	—	—	—	—	680
Cochin China	—	—	—	—	12

Total ... 125,684 128,463 79,338 76,947 64,356

**U.S. ESSENTIAL OIL IMPORTS, 1932-1933.**—The quantities and values of the chief oils imported were as follows:—

	1932 lb.	\$	1933 lb.	\$
Cassia and cinnamon	326,400	157,600	409,800	200,100
Geranium	144,100	463,100	128,000	480,100
Otto of rose (oz.)	15,403	104,909	33,146	205,395
Bergamot	39,800	72,800	75,000	90,900
Citronella and lemon grass	1,508,100	483,000	1,865,400	662,700
Lavender and spike lavender	212,000	228,500	270,200	384,700
Lemon	166,700	123,400	271,000	161,000
Orange	114,000	112,200	149,100	110,300
Sandalwood	4,700	18,900	2,800	12,500
Lime	—	—	41,500	215,300
All other	2,961,800	981,800	2,853,400	886,500

Total ... 2,746,209 3,409,400



# Correspondence

Letters should be written on one side of the paper only. Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

## A Comparison of Prices

SIR,—We read about the cost of living to-day compared to pre-war times, but perhaps it has not occurred to many pharmacists that the retail prices of drugs are now back to their former level, or in some cases even lower. One of the earliest retail price lists issued was the Liverpool Chemists' Retail Price List; the copy I have is dated 1896, and I have taken a few prices from it for the commoner drugs in daily demand and have compared them with those in the current C. & D. Retail Price List. They are as follows:—

	1896	1934
Acid. boric. ...	3d. oz.	2d. oz.
Acid. carbol. liq. ...	6d. oz.	3d. oz.
Acid. citric. ...	3d. oz.	2½d. oz.
Adeps lanae hyd. ...	4d. oz.	2d. oz.
Amyli pulv. ...	2d. oz.	1d. oz.
Creosotum ...	3d. drm.	1d. drm.
Creta præcip. ...	2d. oz.	1d. oz.
Ext. casc. sag. liq. ...	6d. oz.	5d. oz.
Glycerin. et aq. rosæ ...	2d. oz.	2d. oz.
Glycerin. boracis ...	4d. oz.	3d. oz.
Hydrogen. perox., 10 vol. ...	3d. oz.	2d. oz.
Mag. carb. pond. ...	3d. oz.	2d. oz.
Ol. ricini ...	3d. oz.	3d. oz.
Pulv. glycyrrh. co. ...	3d. oz.	3d. oz.
Quin. sulph. ...	9d. drm.	9d. drm.
Sapo mollis ...	2d. oz.	2d. oz.
Ung. zinci ...	3d. oz.	2d. oz.

It will be seen that to-day's figures are the same as or lower than the old ones, but this does not represent exactly the real drop; in a cutting neighbourhood such as mine the ruling prices are below the listed ones. When one considers that rents and taxation are three or four times as heavy as they were in 1896, it would seem that pharmacy has moved backward and not forward with the times. The number of proprietaries and toilet goods has increased considerably, and if it were not so the chemists' business would probably by now be nearly extinct.

Faithfully yours,

COMPARATIVE (5/3).

## Medicines for Dependants

SIR,—“Scrutator (C & D., February 24, p. 207), asks what the chemists' attitude is. The chemists' attitude may be described by saying that they would welcome any scheme which would increase the practice of pharmacy, but not under the conditions of insurance dispensing nor at the tariff rates. The fact that the doctor considers the insurance contract as a source of regular income does not appeal to the pharmacist with equal force. The doctor receives a capitation fee for each patient on his panel, and according to the number of these knows exactly what his income will be; the chemist is paid according to the amount of goods supplied and work done, and he never knows whether the drug fund will be sufficient to meet his account. “Scrutator” remarks that in time of sickness the household would establish contact with one pharmacy and deal there for the necessities not provided as benefits. In a long experience of panel business, one of the things which has struck me most forcibly is that contrary to expectation panel customers seldom require anything except the items ordered on the scripts. How many pharmacists have a regular sale for sick-room requisites to insured persons? On the other hand there is the loss of business due to the panel work coming mostly during the last hour or so in the evening, with the result that the shop appears to be full, and cash customers go elsewhere. If the work was doubled with the addition of dependants this loss would be increased, unless the amount of work and the remuneration were sufficient to support a dispenser working full time. Let us take the case of the small chemist who undertakes the supply of medicines and appliances to insured persons. The contract is so one-sided that no

other trade would consider such conditions for one moment. I should like to read the opinions of some of our pharmacist barristers on the N.H.I. agreement as a contract. No, much as we should like to achieve our rightful status as pharmacists, there is no sense in increasing our responsibilities and probable loss merely to prove our capability.—Yours truly,

VINGT ET UN (6/3).

## League of Youth

SIR,—Far be it from me to turn an east wind on the feeling of our new ginger group for those who are over forty, but I do remember my old schoolmaster impressing upon me under similar circumstances, “There is no substitute for experience, not even youth.”

Yours, etc.,

C. SMITH (7/3).

SIR,—“Gang Warily” is the sound advice you offer to the newly formed Pharmacy League. Enthusiasm without ballast is certainly a dangerous ally, and has often been the means of wrecking a good cause. It may be well to remind the initiators of the movement that many of us who qualified before 1921 have done a good deal of spade work in the cause which has blossomed forth as the Pharmacy League. The impetuosity of youth is strikingly exemplified in excluding from membership of the League the pre-1921 qualified. “Pharmacy for the pharmacist,” if it is to be gained, must needs have the support of every member on the Register. Mention is made of the wages question, but the maintenance of a living standard for dispensing and other professional work does not (according to the report) appear to have been considered; yet until this is secured wages cannot be increased. If the League will “gang its ain gait” I wish it well, but I counsel it to “take tent.”—Yours, etc.,

SCOTIA (6/3).

## Counter Prescribing

SIR,—As one who is guilty (if that is the right word) as often as most chemists of counter prescribing, perhaps you will kindly permit me a few comments. I do not for a moment agree with “Country Chemist” (C. & D., March 3, p. 255) that the attitude of doctors in respect of it is one of benevolent neutrality. My experience is that doctors are markedly hostile towards the chemist who undertakes it, and that they show their hostility by sending their patients whenever they can to other chemists whose counter-prescribing activities have not been found out (for it is pretty certain that all chemists are guilty to some extent). As Huxley said half a century ago, there can be no harm in it as such: the harm is only likely to arise if and when the chemist gets out of his depth. But does any reasonable person suppose that with the market flooded with patent medicines—laxatives, tonics, cough and cold cures, remedies for corns, burns, baldness and whatnot—the chemist may not with perfect propriety devise and recommend remedies of his own? Supposing he were so quixotic as to refuse to prescribe in any shape or form, what would happen? The customer would prescribe for himself or rather be prescribed for by newspaper advertisement and purchase a “patent.” He would—as now—call in the doctor only as a last resource. A small problem I have never solved (acting as seemed best on the spur of the moment) is to know exactly when to prescribe a ready-made proprietary of my own and when to give a mixture or whatever it may be specifically prepared. Some customers prefer the one and some the other. The chemist should remember that counter prescribing is probably the best paying of all his activities, and the customer cannot go elsewhere for future supplies. If the



customer happens to find the remedy that suits him, he generally has no objection either to paying a relatively high price or to going to the trouble of sending long distances for what has taken his fancy. In spite of anything that doctors may say, I maintain that it is "up to" us to develop such a profitable department. What with the small profits on "patents," our grossly inadequate remuneration for N.H.I. dispensing and the growing tendency of medical men to prescribe proprietary remedies, our emoluments grow beautifully less. In counter prescribing we have a means of carrying the war into the camp of our foes. Let me end on a note of modesty. Many of my customers who have tried my prescribing and a doctor's have returned to say they preferred mine!

Yours truly, BUT UNBOWED (6/3).

### The Drug Fund in England and Wales

SIR,—It seems strange to a southerner that "Scotia" (C. & D., February 10, p. 165) should give an account of how panel prescribing in Scotland has degenerated owing to the fears of the doctors of being surcharged. Scotland is the place where, we imagined, prescribing and dispensing were carried out on more professional lines, and I for one thought that the conditions were quite different from those obtaining in England. The instances given of cheap prescribing are too familiar to us in the South, as well as other methods which may not have reached the North as yet—the prescribing of 3x. tablespoon mixtures in order to last the bare seven days, odd numbers of tablets for the same reason, pieces of oiled silk one or two inches square and similar economies, to say nothing of the official instructions for making. But I do not think it would be very detrimental to a patient to receive a B.P.C. equivalent for a proprietary preparation, always presuming that it was an equivalent.

Faithfully yours, ECONOMICAL (20/2).

### "Swank" in Pharmacy

SIR,—May I crave your indulgence and that also of your readers for a brief time? There has been a great deal of correspondence about the unemployed pharmacist, and mention has been made that all travellers ought to be "in the trade" and firms should not employ anyone who does not belong to the fraternity. While there is a great deal of common sense in such a suggestion, is this always applicable? There are many, possibly, who would never undertake such tasks, and it is a very difficult matter for a firm to get just the suitable one. Mention was also made of employing qualified assistants "part time." This may be a good suggestion, but again what about remuneration? Recently I have been trying my little bit to help; and what has resulted? After I install them I find that they want more money all the time. I employed a qualified man for a few months. After all his expenses were paid, lodgings, etc., he had as pocket money £1 7s. 6d. weekly or thereabouts; and although the work was light, this was not satisfactory to him—more was wanted. I pointed out that it was quite impossible to entertain the idea of any increase, and considered it was not cricket asking more when it was a sacrifice to give even that. The business had an average turnover of £20 weekly. At the present time I have no qualified help; and if this is the only treatment assistants can mete out to masters, is it any wonder that there are so many unemployed? If I were a young man and unemployed, I would be only too glad to offer my services for a small remuneration rather than be idle; but swank has entered the ranks, and the idea is still rampant that the master chemist is a man of unlimited means and is making a fortune. Let us do away with all this humbug if we are to get anywhere at all—face the facts squarely and do something for the uplift of the rising generation. This swank has to be stifled; young men and young women have to realise that the field is open and very difficult, and make up their minds to work with a will. Although I have been "stung" badly I am still willing to help, and I may at a future date be able to give employment to an unemployed qualified man—but no more shirking. Who is to blame for this state of affairs?—Yours, etc.,

INQUISITIVE (27/2).

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for, and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them

L. P. S. I. (29/18).—BOOT POLISHES.—The following recipes, which are from "Pharmaceutical Formulas" (Vol. II), should meet your requirements:—

Liquid Blacking		Boot and Shoe Polish	
Ivory black	... 12 oz.	Carnauba wax	... 10 oz.
Treacle	... 4 oz.	Beeswax	... 3 oz.
Sperm oil	... 1 oz.	Stearin	... 1 oz.
Vinegar	... 40 oz.	Oleic acid	... 1 oz.
Sulphuric acid (by weight)	... 2 oz.	Oil of turpentine	... 45 oz.

Melt the three solids by heat, dissolve the colouring required in the oleic acid, add to the "melt," then gradually add the oil of turpentine, keeping the mixture at a temperature of 40° C.

Gainster (11/38).—ESTER GUM.—The products known under the generic name ester gum consist wholly or partly of esters of natural resins, the commonest and most successful forms consisting of the glycerin esters of rosin. The methods actually used for their production are trade secrets, but in general the processes used involve heating the rosin with glycerin under pressure, under conditions permitting the escape of steam but not of glycerin, in the presence of a catalyst and with or without other substances such as tung oil. A commercially-practicable method of avoiding the use of an autoclave is: 500 lb. of rosin, 62 lb. of glycerin and 7½ gallons of tung oil, but heating under pressure is usually adopted. In addition to the rosin-glycerin ester gums, suggested substitutes for rosin include copal resins, gum thus (U.S. patent 1734987) and dammar, and substitutes for glycerin include resorcinol, naphthol, benzylalcohol and also erythritol derivatives (U.S. patent 1820265). It will be obvious that it is quite impossible to give "constants" for the material. The following figures for a rosin-glycerin-tung oil ester gum may be quoted:—

Colour	... dark reddish brown
S.g.	... 1.132
Acid value	... 16.2
Melting-point	... 105°-125°
Saponification value	... 71.59
Soluble completely in hot benzol.	
Slightly soluble in hot alcohol.	
Insoluble in amyl alcohol, acetone and petroleum spirit.	

Ester gums are insoluble in 10 per cent. sodium carbonate solution.

## Retrospect of Fifty Years Ago

Reprinted from

"The Chemist and Druggist," March 15, 1884

### A Rejected Draft

After just a year's consideration, or, at least, possession, of the views of the Pharmaceutical Council, as formulated in their draft Bill for the amendment of the Pharmacy Acts, the Lords of the Privy Council have announced their intentions concerning it. On February 13 the secretary of the Pharmaceutical Council wrote to ask their Lordships to grant an interview in reference to the Bill, and almost by return of post received an answer, saying, in effect, though with the usual official politeness, that the Lord President had no intention of assuming responsibility for the extraordinary Bill which the Council had submitted to him in response to his suggestion that they should formulate their views in respect of the sale of poisons; that, having found the pharmaceutical advice so impracticable, he would not trouble them for any more of it, but would produce his own Bill, and then, if they cared to do so, they might come in deputation and make their observations.





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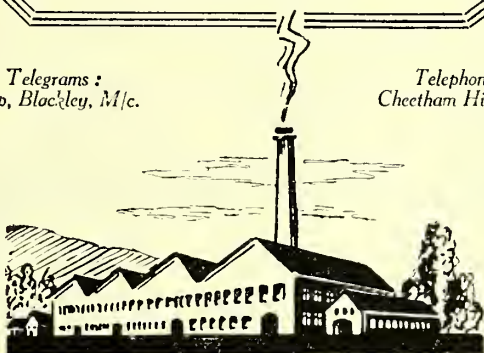
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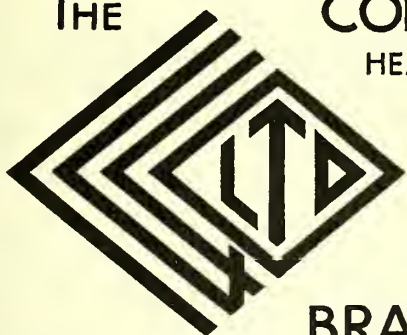
*for* METHYLATED SPIRITS

PLEASE ASK FOR OUR PRICE LIST  
& PAMPHLET ON METHYLATED  
SPIRITS, ETC.. ALSO FOR OUR  
NEW BOOKLET "THE NEW WAY  
TO REMOVE CARBON."

*The Methylating Co., Ltd.  
Kinnaird House  
Pall Mall East, London, S.W.1*

Phone: Whitehall 6964 (2 lines). Wires: "Methcolim, Phone,  
London."

THE



**CONDENSED GAS CO LTD**

HEALD GROVE, RUSHOLME, MANCHESTER, 14.

**DRY GAS IN DRY CYLINDERS**

Nitrous Oxide. Oxygen.

Carbon Dioxide.

Mixtures of Oxygen and Carbon Dioxide

**BRAND OF MEDICAL GASES**



# VEINOTROPE

**FOR THE TREATMENT OF DISEASES OF  
THE VEINS AND THEIR COMPLICATIONS**

**In Tablets—**

**Formula M - For Men**

**Formula F - For Women**

**Varicose veins, hæmorrhoids, phlebitis,  
venous congestion at the meno-  
pause and disorders of menstruation**

**CONTINENTAL LABORATORIES, LTD.**

**30 Marsham Street, London, S.W.1**

*"Taxolabs, Sowest, London"*

*Victoria 2041*

## BLACKIE

**FOR**

## EFFERVESCENT

## SALINES AND

## CITRATES

**ROBERT BLACKIE**

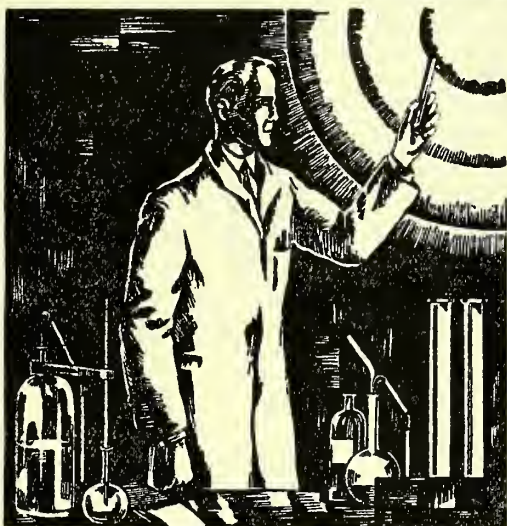
MANUFACTURING CHEMIST,  
SHEN WORKS,

**168 TOWER BRIDGE RD.,  
LONDON, S.E.1**

MANUFACTURER OF "SPUN" OINTMENTS

Tel.: HOP 2422 (Private Exchange)  
'Grams: USHENSUNA, LONDON





## Every Step Forward in Medical Science

is the result of prolonged and painstaking investigations.

No new theory can be regarded as definitely established unless it has been put to the test of innumerable experiments.

The contention that Norwegian Medicinal Cod Liver Oil provides the most effective cure against the human rickets, because it is extremely rich in vitamins A and contains more vitamins D than any other natural product, has been proved by the most exhaustive scientific investigations.

Norwegian Medicinal Cod Liver Oil is world-famous for its high quality.



## NORWEGIAN COD LIVER OIL



Daily Mail  
" Express  
" Mirror  
" Sketch  
" Herald  
" Telegraph  
News Chronicle

News of the World  
Sunday Express  
" Dispatch  
" Pictorial  
" Graphic

People

Radio Times  
John Bull  
Passing Show  
Home Chat  
" Notes  
Pictorial Weekly  
Woman's World  
Companion

Home  
Woman's Pictorial  
Own  
Christian Herald  
Sunday Companion  
Family Journal  
Woman's Life  
Weekly

My Weekly  
Red Letter  
Weekly Welcome  
Woman's Way  
Red Star Weekly

Modern Home  
Woman  
Good Needlework  
My Home  
Woman & Beauty  
Wife & Home  
Weldon's Ladies'  
Journal

Empire News  
Sunday Chronicle  
Newcastle

Sunday Sun  
Birmingham  
Sunday Mercury  
Glasgow

Sunday Post  
Glasgow

Sunday Mail  
Dundee W. News

# Bisurated Magnesia

Newcastle Evening  
Chronicle

Liverpool Echo  
Manchester Daily  
Dispatch

Manchester  
E. Chronicle

Leeds E. Post  
Sheffield Evening  
Telegraph

Birmingham Mail

Bristol E. Post

Cardiff Echo

Glasgow E. Times

" D. Record

" Bulletin

Edinburgh E. News

Belfast E. Telegraph

Dublin Daily  
Independent

Dublin Irish Press

*Advertisements  
in such a  
Comprehensive  
list of papers,  
magazines (etc).  
**MUST** result  
in increased  
demand for*

*If YOU make  
a display to  
link with this!*

## BISMAG LTD.

Distributors:

International Chemical Co. Ltd.,  
Braydon Road, London, N.16



## Supreme in their class

### AGOCHOLINE

Combination of Magnesium Sulphate and Meat Peptone, used as a cholagogue and cholecysto-kinetic.

### PASSIORINE

Fluid extract of Passiflora Incarnata, circulatory and nerve sedative. A non-toxic preparation.

### OPOCALCIUM

A remineralising agent composed of mineral salts and gland extracts. Recommended for Tuberculosis, Rickets, &c.

### DR. BENGUÉ'S BALSAM

Gives almost instant relief in cases of Rheumatism, Neuralgia, Lumbago, &c.

**Benguie & Co**  
LTD.

24 FITZROY ST., LONDON, W. I.



'Phone :  
Museum 1644

'Grams :  
"Anestile, London"

## NIGROIDS for the Throat and Voice

Registered Trade Mark.

Sold in tins 4½d. and 1/6 each.

WHOLESALE TERMS ON APPLICATION

Sole Makers : **FERRIS & CO. LIMITED, BRISTOL**



### BRADY & MARTIN, LIMITED

Manufacturers of

GALENICALS, MILLED OINTMENTS, CAPSULES, PILLS, TABLETS, MALT EXTRACTS, &c.

For fuller particulars consult page 75  
THE CHEMIST & DRUGGIST DIARY, 1934

NORTHUMBERLAND ROAD, NEWCASTLE-ON-TYNE 2



## 50 YEARS' REPUTATION BEHIND IT ! THE POWER OF ADVERTISING BEFORE IT !

Every chemist knows Tamar Indien Grillon as a high-class fruit laxative of excellent repute. Great impetus is being given to sales by a long series of advertisements in the *Daily Mail*. National publicity means that you are liable to be asked several times a day for the proprietary article in question. Don't be caught napping! See that you have a good stock of Tamar Indien Grillon to meet the increased demand.

All enquiries to: GUYOT-GUENIN & SON (DEPT. CD), 67 SOUTHWARK BRIDGE ROAD, LONDON, S.E.1

**TAMAR  
INDIEN  
GRILLON**



# CHEMISTS who display ADVERTISED goods participate in £30,000,000 worth of ready-made SALES every year



This Illustration is typical of the excellent eye-arresting Window Displays which 'ASPRO' publish at frequent intervals.

These Window Sets are printed in full colour—and are sent to Chemists **FREE**

Changing times are here—changing values. The centre of gravity of business is removing to active centres. Let us illustrate this from the chemist's standpoint—his business—his sales. Many chemists fail to realise that in their section of advertised lines over £3,000,000 is being spent annually. If it takes 10% average advertising to sell and make known an article to the public this means that the proprietary and general advertising of chemists' lines is selling £30,000,000 worth of goods a year. THE CHEMIST WHO GETS THIS BUSINESS IS THE MAN WHO SHOWS WINDOW DISPLAYS OF ADVERTISED GOODS IN HIS WINDOWS ALL THE TIME. He connects up with

its stupendous active sales-producing activity. If he fails to show in his windows literature of advertised lines his potential customers and sales are DIRECTED INTO OTHER CHANNELS. You can easily prove this for yourself with 'ASPRO'. **WHEN YOU SHOW AN 'ASPRO' WINDOW DISPLAY, YOU DEFINITELY CONNECT UP WITH ONE OF THE LARGEST ADVERTISING CAMPAIGNS IN THE KINGDOM.** You attract customers into your shop not only for 'ASPRO' but for a hundred and one other things which you stock. Why not prove this to-day for your own satisfaction? Why not bring the customers into your shop? **USE 'ASPRO' advertising to do it.**

'ASPRO' consists of the purest Acetylsalicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Made by ASPRO LTD., Slough, ENGLAND

No proprietary right is claimed in the method of manufacture or the formula.

**ASPRO**  
REG. TRADE MARK

Agents :

**GOLLIN & CO. PTY. LTD.**  
(‘Aspro’ Dept.), SLOUGH, Bucks.

Telephone : SLOUGH 608



# Licoricine

ACTS LIKE MAGIC

## FOR COUGHS AND COLDS

An old-fashioned and really effective remedy which is increasingly in demand.

10 d. size 8/6 doz.

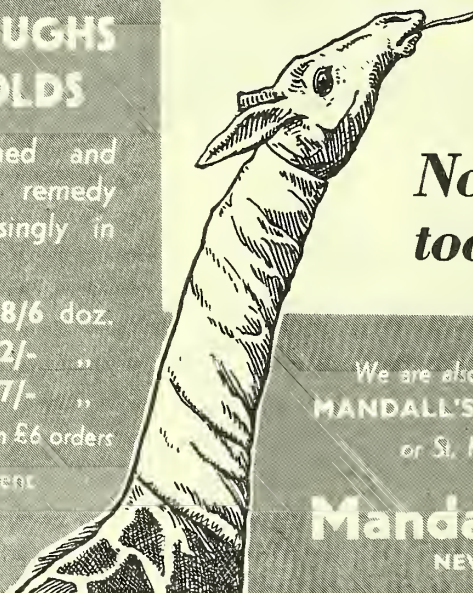
1/3 " 12/- "

3/- " 27/- "

Less 5% discount on £6 orders

Counter Leaflets sent free on request

£2 lots, carr. pd.



*No case  
too bad*

We are also Proprietors of  
**MANDALL'S RED BOTTLE**  
or St. Peter's Oil

**Mandall & Co. Ltd.**  
NEWCASTLE-ON-TYNE



**PILLS**

**BULK & PACKED**

**TABLETS**

**LOZENGES**

Enquiries invited for Tablets & Pills to customers' own Formulæ

**Matthews & Wilson (1931) Ltd.**

6-8 Cole St., London, S.E.1

Established 1894

Phone: Hop 6610-6611

**VISCOSITY**

is the true quality test of

**LIQUID PARAFFIN**

Our article answers fully to the requirements of the B.P. 1932.

*Quality Counts!*

**FRANCIS F. FOX & CO. LTD**  
BRISTOL AND BIRMINGHAM. Est. over 100 Years



**GARFIELD TEA**

FOR CONSTIPATION

PROMPT SHIPMENT

ALL SIZES

'Phone or Write :

**GARFIELD TEA CO.**

44 Foxbourne Road

**BALHAM, LONDON, S.W. 17**



# THE LATEST BEECHAM PRODUCT

This season the public will be demanding BEECHAMS Brand LUNG SYRUP! A NEW Product bearing a name which means SUCCESS—a name known and respected by MILLIONS—a name of incalculable goodwill which must ensure IMMEDIATE ENORMOUS DEMAND FROM THE START.

Everyone knows Beecham's Pills. The success of Beecham's Powders is beyond dispute.

The Success of Beechams Brand Lung Syrup rests upon the same solid foundation. Its efficacy in banishing COUGHS, COLDS, BRONCHITIS, and other RESPIRATORY TROUBLES is really outstanding.

A Bold, Forceful, Compelling advertising scheme, covering the foremost papers in the land, is now in operation. The public are responding to this advertising. Keep yourself stocked to meet every demand.



## BEECHAMS BRAND Lung Syrup

### TRADE TERMS FOR ALL BEECHAM PRODUCTS

#### BEECHAM'S PILLS

1/3 size	-	-	-	-	11/9 per dozen
3/-	"	-	-	-	28/- "
5/-	"	-	-	-	54/- "

#### BEECHAM'S POWDERS

1/3 size	-	-	-	-	11/9 per dozen
5/-	"	-	-	-	54/- "

#### BEECHAM'S POWDERS (Tablet Form).

1/3 size	-	-	-	-	11/9 per dozen
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#### BEECHAMS Brand LUNG SYRUP

1/3 size	-	-	-	-	11/9 per dozen
----------	---	---	---	---	----------------

Less 2½% discount and a further 5% display allowance. Minimum Order £2. All goods packed free and despatched carriage paid.

Stock more—Show more—Sell more  
**BEECHAM PRODUCTS**

**BEECHAMS PILLS LIMITED**

**ST. HELENS, LANCASHIRE**





## Everybody's NEED

If there is one thing that is of interest to everybody at this season it is a specific for colds in the head and nasal catarrh.

Your window cannot be more profitably employed than for a display of Mistol. Mistol is consistently recommended by doctors and it is further popularized by national advertising. Special bonus terms for window display.

(1 doz. 1/3 size Mistol are charged as 11 only, carriage paid. 1 doz. 2/6 size charged as 11 only, carriage paid)

### STEMCO LTD

128 Albert St., Camden Town  
N.W.1

## THIS HOUSEHOLD REMEDY HAS A BIG SALE

**Cephos**  
See foss REGD  
Pronounced THE  
PHYSICIAN'S  
REMEDY

Retails at  
1/3 and 3/-  
in powders  
or tablets

Single  
Powders  
2d. each

For  
**INFLUENZA  
COLDS  
HEADACHE  
RHEUMATISM  
NEURALGIA  
LUMBAGO  
SCIATICA**

from your  
usual  
wholesaler  
or write  
direct

### SHOWCARDS & DISPLAY MATTER

Sent upon application to Cephos Ltd., Blackburn, whether you obtain supplies from us or elsewhere.

*Cephos Ltd. Blackburn*

## ARCHANIUM

RECOGNISED BY MANY  
DOCTORS AS THE

**BEST REMEDY** for

**RHEUMATOID ARTHRITIS,  
OSTEO-ARTHRITIS, LUMBAGO,  
SCIATICA, NEURITIS,  
RHEUMATISM.**

Liberal Terms.

Write for full particulars to Distributors:

**STAPLETON & SON, 34 Yew Tree Road,  
SOUTHBOROUGH, Kent.**

Rep. in Ireland: R. I. VINT, 6 Elgin Rd., Dublin

## It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow

**IGLODINE** has become a household word, and the public, through satisfaction which comes after trial, are demanding **IGLODINE PREPARATIONS**. Are you the retailer who is preparing to meet the demand?

# ·Iglodine·

The Safe and Sure Antiseptic

Write to-day for full particulars to:

**THE IGLODINE CO., LTD. - Newcastle-on-Tyne.**



# Only on Sale a Week But Repeat Orders rolling in!

CYSTEK, the fastest-growing Kidney and Bladder Tablet in Canada, South Africa and the States, has at last been introduced to Great Britain and has had an instantaneous and most striking success. It has been on sale little more than a week, yet already we have had a stream of repeat orders from chemists who had stocked and shown it.

Regularly, twice a week, advertisements in the *Daily Mail*, *Daily Express*, *Daily Herald*, *News-Chronicle*, etc., ensure that this immediate public demand will be a permanent and an ever-growing one.

CYSTEK which is a British Empire Product, has had an enormous success, during the last five years, wherever it has been introduced.

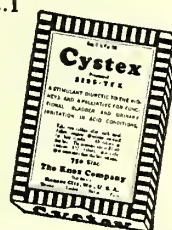
Order a trial stock of CYSTEK Brand Tablets now on our "guaranteed sale" terms.  
Any wholesaler can supply you. Two sizes, **3/-** and **6/-**, less **25** per cent.

Sole Distributors: G. M. Williams & Co., 81 Lamb's Conduit Street, London, W.C.1

# Cystex

(Pronounced Siss-tex)

BRAND  
**KIDNEY &  
BLADDER  
TABLETS**



FINEST PURE LOFOTEN

## COD LIVER OIL

BRÖDR AARSÆTHER A/S AALESUND, NORWAY



VETERINARY  
COD LIVER OIL  
A SPECIALITY

SOLE AGENTS FOR U.K. (EXCEPTING SCOTLAND)

**Freudentheil, Smith & Co.**

21 MINCING LANE, LONDON, E.C.3

Tel. Add.: "Freudenruf"

Tel. No.: Royal 6600

**STOCKS HELD IN LONDON**

AGENT FOR SCOTLAND: ANDREW STEVEN & SON, GLASGOW

## "VITAMIN TESTED YEAST"

Yeast specially prepared for medicinal purposes

GUARANTEED ABSOLUTELY PURE

MIDGLEY & PARKINSON, LTD., Warren Works Pudsey, LEEDS

Sole selling agents for Great Britain—

**THE OLD STRAND CHEMICAL & DRUG CO., LTD.**

Audrey House, Ely Place, London, E.C.1

ALL CHEMISTS SHOULD STOCK

# ABDINE

**THE GOLD MEDAL HEALTH DRINK.** Quick Seller, Big Profits. Over 60 years' Reputation. "Abdine" is obtainable from the Wholesale Houses. Attractive Display Material constantly available.

DUNCAN MCGLASHAN LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH

ESTABLISHED 1793.

The Best and  
Safest Infants'  
Medicine of  
over 130 years'  
standing.

**ATKINSON & BARKER'S  
INFANTS' PRESERVATIVE**

Does not  
contain  
any  
Scheduled  
Poison.

**ROBERT BARKER & SON, LTD., 13 WESLEY STREET, C. on M., MANCHESTER**





### **Unprecedented Profits**

Send an order to your regular wholesaler for three of the new Daisy container display cards (30's) costing 2/9d. each. You will make no less than 82% profit on your outlay. Make the heavy Daisy advertising swell your own turnover and profits by always keeping this card on display.

**J. E. ELLIS LTD.**  
Horsforth, LEEDS

**This illustration  
is reproduced in  
the National Press  
10,000,000  
times each week**





**A LINE WELL  
WORTH  
HANDLING  
BECAUSE ....**



**DEXTROSOL**

**is B. P. quality...and is  
nationally advertised**

The 1934 campaign commencing March 8th embraces  
NATIONAL NEWSPAPERS,  
MEDICAL and NURSING PUBLICATIONS

*It's going to be a real Glucose year  
Don't miss your share!*

**SEND COUPON FOR DISPLAY MATERIAL AND LITERATURE**

**COUPON**

TO CORN PRODUCTS CO. LTD., BUSH HOUSE, ALDWYCH, LONDON, W.C.2

Please send me display material and literature for "Dextrosol."

Name.....

Address.....

C.D.-D.I.

*Sold at the  
popular price  
of 1/6 lb.  
...*

**Branch Addresses :**

174 Corporation Street  
BIRMINGHAM 4

Canada House, Baldwin  
St., BRISTOL 1

Standard Buildings, City  
Square, LEEDS

342 Produce Exchange  
MANCHESTER 4

109 Pilgrim Street  
NEWCASTLE-on-TYNE

Grosvenor Buildings  
68 Gordon Street  
GLASGOW



*The most potent Vitamin (A and D)  
concentrates prepared from  
natural sources only*

## ESSOGEN

VITAMIN A (Blue Value 2000)

is the most potent concentrate of Vitamin A so far marketed, having a Blue Value of 2000, i.e. 200 times that of a good cod liver oil. It has been perfected after many years of research in the Biological Laboratories of Lever Brothers Limited.

Used in a comprehensive series of tests under the auspices of the Medical Research Council (Annual Report 1929/30), Essogen (Lever's Preparation Y) is offered to the medical profession as a well authenticated and accurately standardised preparation of the anti-infective Vitamin A.

Supplied in 2 min. capsules in  
Tubes of 50 and Bottles of 500

## ADVITA

VITAMINS A (Blue Value 1250) and

D (International Units 1000 u.p.g.)

Advita—prepared from natural sources—is a highly concentrated form of Vitamin D, balanced with Vitamin A. It effectively takes the place of cod liver oil in the prevention or treatment of rickets and in the promotion of proper calcification of the bones and teeth.

Supplied in 2 min. capsules in  
Tubes of 50 and Bottles of 500

*Prices on application, with special discounts to the  
Medical Profession, Hospitals and Institutions*

Sole Distributors for the Biological Laboratories  
of Lever Brothers Limited—

Trufood Ltd., Dept. No. (3), Union House,  
26 St. Martin's-le-Grand, LONDON, E.C.1

EMA 23-130

Telephone: National 6701

**YOU WANT EXTRA SALES  
GOOD PROFIT  
VERY WELL—TELL EACH CUSTOMER  
ABOUT VIGGORMALT AND PUT  
AN EXTRA 1'-2'6 5'6 or 8'!**

INTO YOUR TILL with certainty of REPEATS  
YOU MERELY TELL HER SHE CAN EASILY MAKE

**PURE BEER**  
FOR **1<sup>p</sup>** PER **ALE or**  
**PINT STOUT**



FROM **VIGGORMALT** (Regd.)  
THE PURE TRIPLE-STRENGTH EXTRACT of  
RICH MALT and CHOICE HOPS ONLY  
(NO ADULTERATION OR ADDED COLOURING)

*Simply Add  
Cold Water*

**YEAST**  
SUPPLIED FREE  
WITH EACH TIN

LIBERAL DISCOUNTS—CARRIAGE PAID  
WRITE FOR TERMS AND DISPLAY MATERIAL TO:  
**FASSETT & JOHNSON, LTD.**  
86 CLERKENWELL ROAD, LONDON, E.C.1  
Sole Manufacturers—VIGGORMALT LTD., Hove, Sussex

## BRITISH WINES

We specialise in . . .

**B.P. ORANGE and  
WHITE WINES.**

WRITE FOR SAMPLES AND QUOTATIONS.

**MELROSE-DROVER, LIMITED,**  
MAKERS.

**LEITH.**

London Office: Sentinel House, Southampton Row, W.C.1

Established 1872.



# PETROLEUM JELLIES

WHITE, LEMON, YELLOW, AMBER, RED, GREEN.

# WHITE & COLOURED OILS

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

# LIQUID PARAFFIN

COLOURLESS, TASTELESS, ODOURLESS.  
ALL SPECIFIC GRAVITIES.

B.P. AND TECHNICAL QUALITIES

*Wholesale Trade only.*

# STERNS LTD.

16 FINSBURY SQ., LONDON, E.C.2, ENGLAND

Telephone: NATIONAL 7644 (7 lines)  
Telegrams: "CENTUMVIR, PHONE, LONDON."



## These Journals are selling **TOWN TALK** for **YOU**

Advertisements of "Town Talk" Liquid Silver Polish, the "Town Talk" Silver Plate Cloth and the "Town Talk" Chromium Plate Cloth appear consistently each month in over 10 million copies of the women's newspapers and magazines illustrated.

That is why Stockists don't have to sell "Town Talk"—they are asked for it.

Order direct or from

James Woolley Sons & Co.,  
Ltd., Manchester  
Ayrton, Saunders & Co., Ltd.,  
Liverpool

Brooks & Warburton, Ltd.,  
Goodall, Backhouse & Co.,  
Leeds

May, Roberts & Co., Ltd.,  
London

**TOWN TALK POLISH CO.**  
— MANCHESTER —



## WATER GLASS

NEWBALL & MASON LTD.,  
NOTTINGHAM

give the best value in Water Glass

- ★ Guaranteed 140 T.W.
- ★ Attractive get-up
- ★ "Own name" label, if desired

Apply for Terms

## WATER GLASS



## STOCK OUR 'FLU PREVENTIVE PENDANT

These are very effective, and will also increase your sales for iodine.

TO RETAIL AT 6d. 33/- per 100. SAMPLE 6d.  
BURALL BROTHERS, WISBECH, CAMBS.

## DISPENSING FOR PHARMACEUTICAL STUDENTS.

By J. W. Cooper, Ph.D., and F. J. Dyer, B.Sc., Ph.D. This book has just been completely revised and brought up to date. It is an invaluable textbook, in which special care has been taken to give maximum assistance to the Candidate for the Qualifying Examinations.

Third Edition. 392 pp. 8/6 net.

From a bookseller, or 9/- post free from:

SIR ISAAC PITMAN & SONS, LTD., Parker St., Kingsway, W.C.2

## PUTNAM'S PRICE PROTECTED POULTRY PRODUCTS PRODUCE PROFITS

WRITE FOR TERMS:—

Putnam's Dependable Service  
NORTHAM, DEVON



## SHADEINE FOR TINTING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.

Trial size 8d. per doz.	..	..	6/-
1/4 size, per doz.	..	..	12/-
2/6 size, per doz.	..	..	24/-
3/0 size, per doz.	..	..	36/-

The SHADEINE Co., 58, Westbourne Grove, London, W.2

## Louis de Luxe Products

ALL TOILET PREPARATIONS

PROPRIETORS:

Low, Son & Haydon, Limited

5 GT. QUEEN ST., LONDON, W.C.2

TELEPHONE: HOLBORN 6410

EST. 1790

COURT  
PERFUMERS

## OPTICAL TUITION

FOR THE

S.M.C., B.O.A. and N.A.O. DIPLOMA Examinations

Particulars:—

C. A. SCURR, F.S.M.C., F.B.O.A., F.N.A.O., F.I.O., F.C.O., M.P.S.  
50 HIGH STREET, BARNET, LONDON, N.

From the usual Wholesalers or direct—

**Hobson's Choice**  
FEET POWDERS  
PLAISTERS

**HOBSON, TRIMBLE & CO. LTD.**  
11 Union St., LEEDS.

## DRY BATTERIES SELL ALL THE YEAR ROUND

PIFCO carry a twelve months' storage guarantee and only cost 4½d. subject.

Illustrated Catalogue rec.

85 PIFCO HOUSE - MANCHESTER

## Senna

FROM OUR  
OWN GROWERS

Alexandrian & Tinnevely  
Pods Leaves Siftings

John Ronaldson & Co. 15 Seething Lane, London.

## COMPRESSED TABLETS

COATED or UNCOATED  
Standard or Private  
Formulæ

Wholesale Buyers write  
T.H. WATSON & Co. Ltd  
BATLEY

## OTEG EGG PRESERVATIVE

Store eggs dry in box for ten months.

SOZOL (1924) LIMITED, 20 Copthall Avenue, London, E.C.2



## SHAVING AND TOOTH BRUSHES

EDWARD HACK,

69 FARRINGTON ROAD, LONDON, E.C.1.

Telephone: HOLBORN 6000

How are your Stocks of

## WILLIAMS'

Shaving Preparations?

Sole Distributors:

SCOTT & BOWNE, LTD.

10/11 Stonecutter Street - London, E.C.4

## F. MAUND & E. BERG (SHOWCASES) Ltd.

SHOPFITTERS & SHOPFRONT BUILDERS

175/9 OLD STREET, LONDON, E.C.1

Telephone: Clerkenwell 1782/3

are offering for sale, at competitive prices, an extensive and exceptionally full range of Chemists' Fittings, Second-hand and New.

## VITREA UNION BOTTLE & GLASSWARE CO. LTD.

173 EVELYN STREET, LONDON, S.E.8. Tel.: New X 3577

Large Range of Perfume

## BOTTLES

in White Flint and colours, various sizes and shapes; Bakelite Caps or Metal Caps; also Tablet Bottles, Aspirin Tubes, Cream Jars, &c. Large permanent stocks kept.

## FREE and POST FREE NEW CO-RE-GA CARD

Display it and increase your sales

THOS. CHRISTY & Co., Old Swan Lane, London, E.C.4



A SELECTION OF **RICHTER'S** PRODUCTS SOLD IN BULK

**ADRENALINE B.P.** PER DOZEN 1 oz. BOTTLES **16/9**

**PITUITARY (POST. LOBE) EXTRACT B.P.** 6 DOZEN 1 c.c. AMPOULES **16/-**

**THYROID B.P. TABLETS (1 GR.)** PER DOZEN BOTTLES OF 100 TABLETS **11/6**

**EXT. HEPATIS LIQ. B.P.** PER 1/2 DOZEN 4 oz. BOTTLES **20/-**

SPECIAL QUOTATIONS FOR LARGER QUANTITIES ON APPLICATION

WE ARE ABLE TO SUPPLY ANY GLANDULAR PRODUCTS YOU MAY REQUIRE

**GEDEON RICHTER (GREAT BRITAIN) LTD., 1/2 HARDWICK ST., E.C.1**

**SELL BRITISH!**

**HARROGATE SPA  
SPARKLING TABLE WATER**

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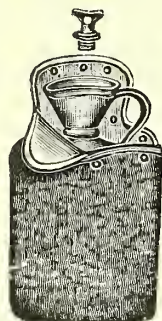
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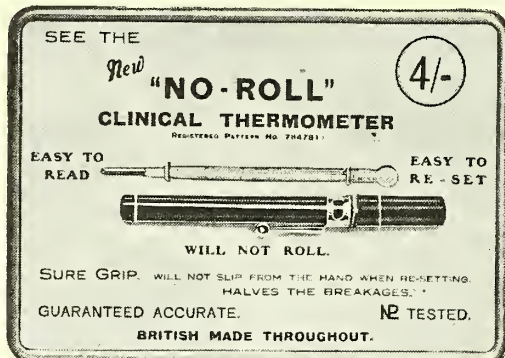
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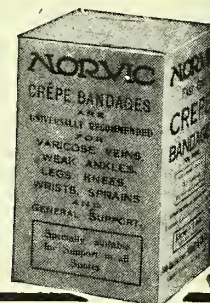
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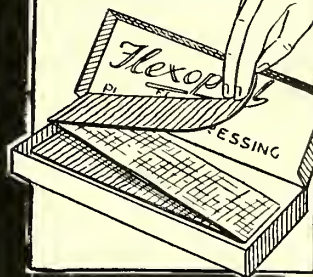
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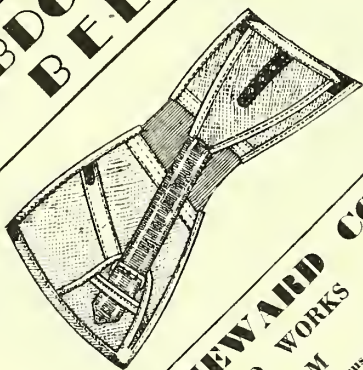
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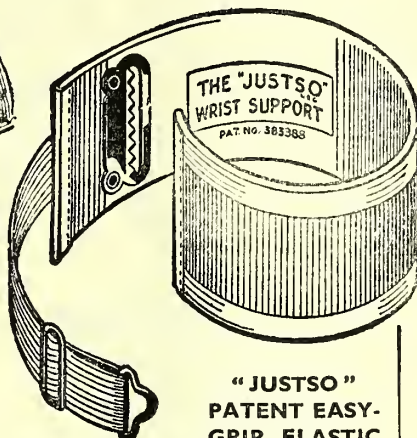
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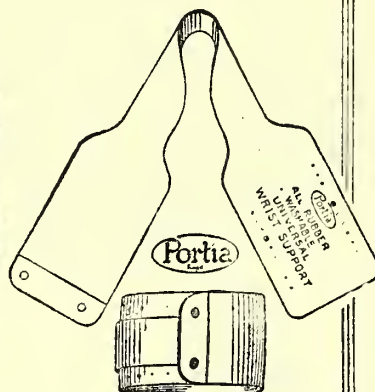
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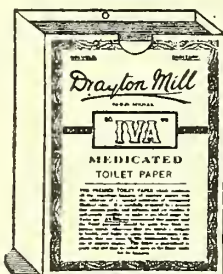
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MARCH 10, 1934

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9.—**LONDON, S.W.**—Good-class General Retail; only small Panel; turnover exceeds £2,000; stands to do easily £3,000; splendid main-road position; commanding shop; fully stocked; price £1,575; personally recommended.

10.—**KING'S CROSS (near).**—Old-established Cash Retail, with good N.H.I.; same hands 50 years; retiring; present returns £25 to £30 weekly; scope for increase; corner shop, with living accommodation; price £600, or first reasonable offer.

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**G**ENUINE Middle-class Retail Business and Property for Sale, in country market town; price £1,500; property £850 down, rest could remain on mortgage; good living accommodation over double-fronted shop in shopping district; electric light throughout; audited accounts and stock; turnover £2,200; further details on banker's reference. 613/21. Office of this Paper.

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dental district  
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**L**ANCASHIRE or  
ing £1,500-£2  
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ship with view to  
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WANTED, in or out of London, £25 weekly. Kensington, W.14.

## PRE

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**K**IMBERLEY (C.M.) Young Qualified Shop in good locality prospects for a young account; full enquiries 66 Bath Street, Ilke

**PREMI**

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**PARTNERSHIP.**—A man, who has s  
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## BUSINESS OPPORTUNITIES.

**BOURNEMOUTH.**—An excellent opportunity for Chemist to open in thickly populated and rapidly growing suburb (no opposition); attractive block of four new shops (only one left); main road; spacious living accommodation; rent £120 p.a. or would sell at £1,450 freehold. Apply Ernest Slade & Co., 111 Commercial Road, Bournemouth.

## AGENCIES.

**AGENTS** Wanted in each town for new proprietary; showcards and free parcel sent each agent and an extra 10 per cent. off invoice for all goods purchased during first 12 months; all parcels carriage paid. 611/10, Office of this Paper.

**AGENCY** Wanted, Scotland.—Gentleman has car and assistant, prepared to handle high-class lines, calling regularly on Chemists, Wholesalers, Hairdressers and Stores throughout Scotland, on commission basis and part expenses; would establish office in Glasgow if necessary; can furnish excellent references. Reply K. H., 611/29, Office of this Paper.

## TENDERS INVITED.

### CORPORATION OF LONDON. DISINFECTANTS.

**THE** Sanitary Committee of the Corporation are prepared to receive Tenders for the supply of such Disinfectants and Chemicals as may be required by the Corporation for a period of three years from July 1, 1934.

Forms of Tender and particulars of the articles required, which should preferably be of British or Imperial origin, can be obtained at the office of the Town Clerk, Public Health Department, Guildhall, E.C.2, between the hours of 10 a.m. and 5 p.m. (Saturday 10 a.m. to 1 p.m.).

Tenders, on the Form supplied, must be delivered at the Office of the Hallkeeper, Guildhall, E.C.2, not later than 12 noon on Monday, April 16, 1934, in sealed envelopes, addressed to the Town Clerk, Public Health Department, and endorsed "Tender for Disinfectants, &c."

The Committee do not pledge themselves to accept the lowest or any Tender.

Guildhall, E.C.2.  
March 6, 1934.

BELL.

## APPRENTICES.

**APPRENTICE**, Male, for business in Notting Hill Gate, with good Dispensing and Counter experience. 236/500, Office of this Paper.

## SITUATIONS OPEN.

### RETAIL (HOME).

**BRISTOL.**—Qualified Lady or Gentleman (Junior) for Dispensing and Counter; easy hours; middle class. Apply with full particulars, S. M. Lennox, Chemist and Optician, 82 Stokes Croft, Bristol.

**BENTALLS OF KINGSTON** require a Saleswoman for their Drug Department; at least 6 years' experience; Dispensing an advantage. Apply personally or write, giving particulars of experience and salary required, to Staff Manager.

**ESSEX**, near London.—Locum, Qualified, for single-handed business from March 29 for probably a month or more, £3 10s. a week and lunch daily; very light duties, but applicants must be conversant with retail business and prices. Telephone Buckhurst 3094.

**HIGH WYCOMBE.**—Wanted, Junior Assistant of good address; state age, experience and salary required; letters unanswered in 7 days respectfully declined. J. M. Hughes, Ltd., Chemists, High Wycombe.

**LANCASHIRE.**—Qualified Chemist; progressive post for keen person. Apply, stating full particulars of age, experience and salary required in first letter, to 613/7, Office of this Paper.

**LONDON.**—Required shortly, Qualified Assistant, whole or part time; would suit elderly gentleman requiring easy hours. Reply, giving full particulars of experience, age and salary required, "Pharmacist," 613/19, Office of this Paper.

**LONDON.**—Qualified Chemist and Optician, J.C.Q.O.; age about 30; must have had good experience as Optician; state salary and usual particulars, photo if possible. 611/25, Office of this Paper.

**LONDON, N.**—Smart Junior Male wanted by March 26 for good-class Dispensing and Photographic Business. Full particulars, with photo and salary required, to Young & Harrison, 7 Gillespie Road, London, N.5.

**MIDLANDS.**—Two Junior Assistants, Lady or Gentleman, one Qualified, one Unqualified; full particulars, photo (to be returned); state when disengaged. 611/8, Office of this Paper.

**SOUTH COAST.**—Really capable Qualified Working Manager required; must be energetic and progressive; accustomed Buying, Window-dressing, Prescribing and understand Photography; age preferably 40-45; state whether married or single; moderate salary; permanent post; letters unanswered in 7 days respectfully declined. 613/24, Office of this Paper.

**YORKSHIRE COAST.**—Wanted, a Qualified Assistant, at once; apply, giving full particulars references, salary, required, &c.; applicants not answered in 7 days respectfully declined. Apply 612/40, Office of this Paper.

**ASSISTANT**, Lady or Gentleman, Book-keeping and Dispensing; state age, salary and experience. Banks, Bridge Street, Finner, Middlesex. Phone: Finner 55.

**CHEMIST**, experienced, as Manager for new Pharmacy to be opened shortly; Society's turnover £400,000 p.a.; membership over 10,000. Applications to be made on special form, which may be had on request to the Secretary, Blyth Co-operative Society, Ltd., Blyth.

**IMPROVER** or Junior wanted, indoors, for High-class Dispensing and Photographic Business. Usual particulars, Smith Lauriston, North Parade, Horsham.

**JUNIOR ASSISTANT**, Male, for branch. Please write, stating age, experience and salary required, Bewell's Ltd., 19/21 Pitfield Street, N.1.

**JUNIOR ASSISTANT** wanted; tall; knowledge of Photographic essential; state salary and usual particulars; applications not answered will be respectfully declined. Bell & Jones, 275 High Street, West Bromwich.

**JUNIOR ASSISTANT** wanted (Unqualified) lady or gentleman, for Dispensing, Counter, Windows. Apply, stating age, height, salary, experience (enclose photo), Woodhouse, Chemist and Optician, Luton Road, Chatham.

**JUNIOR UNQUALIFIED ASSISTANT** required next week; of good education and with sound references. Please state full particulars, with photo, to Lester, Chemist, 1 Station Road West, Canterbury.

**LADY ASSISTANT**, Unqualified, required; accustomed to brisk N.H.I. Write only Vahman, 76 Brick Lane, London, E.1.

**LEWIS & BURROWS LTD.** have a vacancy for a well-trained Junior Assistant. Apply, giving full particulars of previous experience, to 146 Holborn Bars, London, E.C.1.

**LOCUM** (Qualified) required, July 15-July 23 inclusive; state age, terms, experience; N.H.I., working class; replies not answered in 7 days respectfully declined. J. W. Hurst, 105 Woodhouse Street, Leeds, 6.

**MANAGER**, Qualified, required; invest £250; wages £230 per annum; share of profits; interest on investment; suitable post for keen man; good Dispenser and Prescriber; profits high; certified accounts. Write only, G. M. Christian, 112a Swaby Road, Earlsfield, London, S.W.18.

**MANAGER**, Qualified, with Optical Diploma, married, for growing village in Hertfordshire; wife capable and willing to run a small Drug Store, to which living accommodation is attached; progressive post for a couple with initiative; give fullest particulars in first letter as to age, experience, when disengaged, stating salary required, to which a commission on increased turnover would be added. D.W.E.B., Chater, Chemists, Watford.

**PHARMACY.**—Experienced Unqualified Male and Female Assistants required to act as holiday reliefs. Apply in writing, stating age and experience, to Staff Manager, Royal Arsenal Co-operative Society, Limited, 148 Powis Street, Woolwich, S.E.18. Endorse envelope "Pharmacy." (Widows and single persons only considered.) Note.—Canvassing of members of the General Committee or Officials will disqualify.

**QUALIFIED ASSISTANT** (Male), non-resident, for Hospital in the North; institutional experience essential; apply, stating age, salary required, together with copies of not less than 3 testimonials; superannuation scheme in force. 612/21, Office of this Paper.

**QUALIFIED ASSISTANT**; state age and salary required. P.C.B. 111/12, Office of this Paper.

**QUALIFIED Chemist** required; good Counterman and Dispenser; sound character; good business man; age 30 to 40; comfortable berth to reliable man; salary moderate. Full particulars and references to "Rhei," 612/39, Office of this Paper.

**QUALIFIED Manager** for branch; middle class; store methods. Please write, stating experience, age and salary required, to Bewell's Ltd., 19/21 Pitfield Street, N.1.

**QUALIFIED Manager**, married, wanted immediately to take charge of new branch; commencing salary £3 10s. weekly and house rent free; progressive on results; full particulars in first letter. Apply Hedley Pratt & Co., Ltd., Chemists, Measham, nr. Burton-on-Trent.

**QUALIFIED Manager** required for new pharmacy in S.W.1 district; must be able to buy and take full control and have had previous managerial experience. State age, height, experience (photograph if possible), and salary required, 610/37, Office of this Paper.

**QUALIFIED**, young, manage branch seaside town (South Devon); thorough knowledge high-class Cameras and Photographic dealing; photograph, experience, age, salary required. 237/503, Office of this Paper.

**SUPERINTENDENT**, Qualified, elderly; short hours; easy position; 10 miles South of London for March 19. Apply, stating age, salary required, references, &c., 237/510, Office of this Paper.



**UNQUALIFIED** Assistant wanted, light Dispensing, occasional Counter and efficient packing of proprietaries. 237/509, Office of this Paper.

**WANTED**.—A Qualified Chemist, good Dispenser, excellent Counterman and an expert Window-dresser. Write, stating age, salary, experience, when free, to K., 77 High Street, Camden Town, London, N.W.1.

**WANTED**, in May, Qualified Assistant (about 24); good-class Dispensing experience essential; South Coast; submit full details of experience. "X.Y.Z.," 612/35, Office of this Paper.

**WANTED**, mid-March, Qualified Lady or Gent. to manage small newly opened branch at seaside; state salary required, which must be small, but progressive as business increases; open Sundays during season; flat optional. Hants, 611/15, Office of this Paper.

**WANTED**.—Qualified Chemist-Optician as Manager, at once, for working-class business in Yorkshire. Apply, stating age, experience and salary required, to 612/11, Office of this Paper.

**WANTED**.—Young Unqualified Assistant, male, for good-class suburban business; must be a worker. Apply, stating wages, experience, &c., to 610/35, Office of this Paper.

**YOUNG** Qualified Assistant, thoroughly experienced all departments, for good-class business; D. & P. an advantage. State full particulars, photo, salary (moderate), &c., to 613/34, Office of this Paper.

### WHOLESALE.

**PORTSMOUTH**, Southampton, Stoke-on-Trent, Leeds, Bradford, Bristol, Newcastle-on-Tyne.—Established Agents with good connections with Retail and Wholesale Chemists wanted by a London firm marketing a nationally advertised article; no objection to carrying additional lines; salary and commission. Full particulars in confidence to Box 361, Greenly's, 5 Chancery Lane, London, W.C.2.

**AGENTS** Wanted to carry popular new advertised proprietary remedy on commission; state ground covered and present lines; reserved territories for live men. 237/504, Office of this Paper.

**EXPERIENCED** Workers in Manufacture of Hypodermic Syringes required; write, giving particulars and state whether accustomed to complete process or part manufacture; all details treated with strict confidence. Apply P.C.B. 110/35, Office of this Paper.

**MANUFACTURING** Chemists (Lancashire) require well-educated Assistant to Sales Manager, age under 40; the position demands knowledge of retail, wholesale and export commercial routine, order-getting by interviews and correspondence and some acquaintance with supervision of travellers and advertising; progressive position for ambitious man with determination and persuasive personality. Full details of experience and salary required to P.C.B. 110/35, Office of this Paper.

**MANUFACTURERS** of Attractive and Easily Sold Medicated Confectionery require First-class Representatives, with own car, in populated districts throughout the country. As these posts carry good salary, commission and expenses, only those with proved sales records need apply. Give full particulars, age, references and territory covered. Agencies would be considered. 613/5, Office of this Paper.

**MEDICAL** Representative for Lancashire required by Baby Food Manufacturers for calling on Welfare Centres and General Practitioners; applicants must be aged 25-35 years, able to drive car, willing to reside on any ground and of good appearance and address; experience in a similar capacity, pharmaceutical qualifications and/or medical knowledge or training is essential. Write, giving fullest details of career, lines carried, age, married or single and remuneration expected, to Medical, P.C.B. 110/34, Office of this Paper.

**REPRESENTATIVE** for sale of two Pharmaceutical Specialities on good commission basis, preferably man already on the ground, for any of the following counties: Warwickshire, Northampton, Hertford, Cambridge, Norfolk, Suffolk, Essex, Bedford, Middlesex, Hants, Wilts, Dorset, Somerset, Cornwall, Devon, Sussex, Surrey, Kent; must have good references. The "Red Band" Chemical Co., Ltd., Richmond Terrace, Dalry Road, Edinburgh.

**REPRESENTATIVE** (not over 40) required by old-established firm of Oil and Chemical Merchants for the Southampton-Portsmouth area; applicants must have a sound connection amongst Chemists, Ironmongers and Allied Trades; state age, experience, qualifications, salary required, if own car. Write 610/23, Office of this Paper.

**REPRESENTATIVE** Required by leading Manufacturing and Wholesale Drug House for West of England and South Wales. Write, stating particulars of experience, &c., 236/502, Office of this Paper.

**REPRESENTATIVE** Required by progressive manufacturers to call on Chemists in Northumberland, Durham and Yorkshire; established connection to hand over; fullest particulars of past experience, age, stating whether any connection on the territory named; applicants must be in a position to provide their own car. 236/501, Office of this Paper.

**REPRESENTATIVES**, highest references required, with live connections Chemists and Hairdressers, to carry new Proprietary as side-line on commission basis, attractively displayed and ready seller; areas vacant: Birmingham and District, Lancashire, Lincolnshire, West and South-West England, North Wales; state ground covered. P.C.B. 110/38, Office of this Paper.

**REQUIRED** for London by high-class Manufacturing Biological and Pharmaceutical Chemists, Representative with good education; knowledge of medicine an advantage; local residence essential. 237/505, Office of this Paper.

**TRAVELLERS** (part time) wanted for South of Thames and Coast, Wales and Scotland; part expenses and commission; must have sound connection with Chemists, Hairdressers and Stores to further sales of well-introduced and popular series of Beauty Products (Proprietary) on bonus terms; give full particulars and present lines handled. Box H.T., c/o Knights, 55 Chancery Lane, W.C.2.

**WANTED** for different parts of England, Scotland and Wales, where not already covered, to sell on commission Sunax Pastilles Registered line with outstanding free gift offer; also all Sunswets products; car essential; state ground covered. Sunswets, Ltd., Peterborough.

**WANTED**.—Representatives or Agents in Midlands, Southern, Eastern and Western Counties to carry Bath Preparations as an additional line; generous commission; good connection essential. Full particulars required in first letter to 613/30, Office of this Paper.

**WELL-KNOWN MANUFACTURING CHEMISTS**, distributing Proprietary Lines, require Representatives for the following areas:—(1) London and Suburbs; (2) South-East and Eastern Counties; (3) Midlands; (4) Lancashire, Cheshire, North Wales; (5) Yorkshire, Durham, Northumberland, Cumberland and Westmorland; (6) West of England, South Wales. Applicants not possessing proved sales records and strong existing connections amongst Chemists and Stores cannot be considered. State (in confidence) qualifications, territory covered, age and salary expected. P.C.B. 110/3, Office of this Paper.

### COLONIAL, INDIAN AND FOREIGN.

**CHEMIST'S** Manager required for an established and expanding chain of Retail Chemist Businesses in a British Dominion; a Qualified man who has had good experience in managing a Departmental Chemist's Retail and has also done some inspection work in connection with a chain of up-to-date pharmacies; must be healthy and vigorous and possess a capacity for instituting improvements with a view to lucrative development; excellent prospects. Write, stating age, experience and whether married, to Box LZ923, c/o Deacon's Advertising Agency, 5 St. Mary Axe, London, E.C.3.

### SITUATIONS WANTED.

#### RETAIL (HOME).

**A.A.A.**—**QUALIFIED** Male (23); experienced Dispensing, Counter, Window-dressing, good Stock-keeper; desires position anywhere, any capacity. M.P.S., 22 Beechgrove Road, Newcastle-on-Tyne.

**A.A.**—**ASSISTANT**, Manager; West End, spa, seaside experience; tall; good Salesman, Photographer; abstainer; unregistered. MacLellan, Wotton-under-Edge, Glos.

**A.**—**CAPABLE** Unqualified Assistant, able to take charge; Ciné and Still Photography, Dispensing, Window-dressing; 11 years' experience. 612/36, Office of this Paper.

**A.**—**DISPENSER**—**BOOK-KEEPER**, Lady, Hall, 10 years' excellent experience, desires post; salary moderate. "Dispenser," 38 Kenway Road, S.W.5.

**A** **MANAGER** or Senior, Qualified (28), 6 ft., single, requires position where personality and salesmanship counts; excellent references. 614/9, Office of this Paper.

**A** **QUALIFIED** Manager, disengaged, 20 years' experience, requires position as Branch Manager, London or suburbs. Davies, 109 Alexandra Drive, Surbiton, Surrey.

**A** **QUALIFIED** Manager or Assistant; 10 years' London experience, including West End; 34, married; Western district preferred. "Pharmacist," 69 Gordon Road, Ealing, W.5.

**A** **YOUNG** Lady (24) requires post; 6 years' Counter and Toilet experience; no Dispensing; East London district preferred. Miss D., 65 Tavistock Gardens, Ilford.

**A** **S** Locum, Manager or Assistant, "not registered"; over 30 years' London experience; whole or part time; Counter, Book-keeper, Dispensing and worker; London only. "Prescriber," 130 Scott-Ellis Gardens, N.W.8.

**A** **S** Locum; Qualified; Optics; references. Please make a note: Telephone: 1079 Warrington, or Chemist, 133 Liverpool Road, Warrington.

**A** **S** **MANAGER**, Locum or Assistant, Qualified (35); married; energetic; excellent references; experienced all branches; free any time; 10 years last post; owner retiring. 614/8, Office of this Paper.

**A** **S** **MANAGER**, Qualified (42); medium height; fully experienced Dispensing, Photo, Surgical, knowledge of Optics; London preferred. M.P.S., 69 Ormeley Road, S.W.12.

**A** **S** **SUPERINTENDENT** or other light post; Qualified (46); good appearance; conscientious, energetic; wages according to hours (about 50s.); good references; London or near. T., 6 Porchester Place, W.2.

**A** **SSISTANT** or Manage Branch Surgical Store; Drugs and Sundries; expert Truss and Abdominal Belt Fitter, &c.; smart; middle aged; references, &c.; salary 40s. Lambert, 88 Langley Road, Smallheath, Birmingham.



**ASSISTANT**, tall, well educated and responsible, seeks post in London; thorough knowledge of all branches of Pharmacy. H. Lee, 82 Adelaide Road, Hampstead, N.W.3.

**ASSISTANT**, Unqualified (38); capable; tall; all-round experience; could travel; permanency preferred; abstainer; disengaged. Sanders, 93 Bulstrode Road, Hounslow, Middlesex.

**ASSISTANT**, Unqualified (25); tall; well experienced; present in West End; please state salary. 14A Fairway Avenue, Kingsbury, N.W.9.

**ASSISTANT** (38), Unqualified, 20 years' all-round experience, seeks permanency; excellent references; go anywhere. 32 Kipton Road, Colne, Lancashire.

**ASSISTANT**; 25 years' experience Dispensing, Counter; accustomed to manage; single; active; unregistered. Statim, Dorset Street, Birkby, Huddersfield.

**ASSISTANT** (33), Lady, Unqualified, desires change; capable Dispenser, Counter-hand, Book-keeper, working knowledge of P. & F. 613/17, Office of this Paper.

**ASSISTANT** (24); expert Dispenser; accustomed to high-class Family and Dispensing business. Bishop, 12 Dawnay Road, W.18.

**ASSISTANT** (20); tall, smart appearance; used to middle-class business and large N.H.I.; good Salesman and Window-dresser; wanted E. London or City. P.C.B. 111/6, Office of this Paper.

**CHEMIST**, Scot (50), experienced, desires Management or Dispensing London or provinces; conscientious; reasonable salary. "Drug," 45 Northview Drive, Westcliff-on-Sea.

**CHEMIST** strongly recommends an Unqualified Assistant (age 35); well up in every department and thoroughly reliable in every way; London and provincial experience; good appearance; London preferred. "Salol," c/o 613/18, Office of this Paper.

**COMPETENT** Unqualified Assistant or Manager; tall, good personality; 25 years' experience seaside, country, London; quick, clean, accurate Dispenser, Counter; moderate salary; disengaged. Johnstone, 3 Babington Road, Streatham, S.W.16.

**DISPENSER**, Male (retiring), desires few hours daily; coastal district; doctor or pharmacist. 612/9, Office of this Paper.

**DOCTOR'S** Dispenser—Book-keeper, gentleman, middle-aged; thoroughly experienced routine, private, Panel; whole or part time; interview desired; moderate. 65 Clouesley Road, N.1.

**EFFICIENTLY-TRAINED** Assistant (21), Unqualified; 6½ years' experience; smart, obliging, conscientious worker; Window-dresser, Dispenser, Counterman; Coast or Southern Counties; free April. Whelpton, 151 Clapham Road, Stockwell.

**EXPERIENCED**, active, trustworthy Assistant (28; 6 ft.); Public School; tactful, courteous, Counterman; clean, tidy Dispenser; town, country; immediately. Flatman, 63 Baker Street, Weybridge.

**EXPERIENCED** Unqualified Assistant requires responsible position; last position 8 years; undeniable references; excellent Dispenser and Counterman; energetic, conscientious; excellent references; free now. Fais, 34 Trinity Street, Dorchester, Dorset.

**FIRST-CLASS** Qualified Male Locum desires season engagement; 7 years' all-round experience. 611/28, Office of this Paper.

**JUNIOR** Assistant (21); disengaged; all-round experience in Dispensing, Counter, &c.; good references; moderate salary. 612/19, Office of this Paper.

**JUNIOR** (22); tall; used to high-class business; London or suburbs; excellent references. R., 6 Dagmar Road, South Norwood, S.E.25.

**LADY** Dispenser (Qualified) seeks post in Chemist's shop; willing help with Counter work. Hicks, Mappowder, Sturminster Newton, Dorset.

**LADY** (Hall) desires post Doctor or Chemist; 4 years' General Pharmacy experience; good references. Denny, 43 Heathdale Avenue, Hounslow.

**LADY**, Qualified, requires responsible post, London preferred; 12 years' West-End experience, including managerial; free one month. P.C.B. 110/17, Office of this Paper.

**LADY**, Unqualified, offers assistance at Counter, Stock and Dispensary; good experience. V. N., 39 Altyre Way, Beckenham, Kent.

**LOCUM**; disengaged; town or country; any period; well recommended; moderate salary. Chemicus, 56 Rudloe Road, Clapham Park, S.W.12.

**LOCUM** or permanency, Qualified young Yorkshireman; excellent references; moderate salary; accept anywhere, although London preferred. 613/40, Office of this Paper.

**LOCUM** or Season Position; Qualified; middle-aged; moderate terms; disengaged March 10. Mossom, Lealholm, Sharps Lane, Ruislip, Middlesex.

**LOCUM**, Qualified, experienced (38), now booking for season. Please write Ridsdale, Blendworth, Horndean, Hampshire, and 200 Bexley Road, Northumberland Heath, Erith.

**LOCUM**, Qualified, Optics, booking dates; reasonable; Midlands preferred. Note address, you may want it: Chemicus, 6 Duke Street, Buxton.

**M.P.S., J.C.Q.O.**, (32); tall; locum or permanency; 9 years' experience London and district; excellent references; Manager; reliable, trustworthy. 612/14, Office of this Paper.

**M.P.S.** F.B.O.A., J.C.Q.O., expert Refractionist, seeks permanency; 15 years' managing, London and provincial; 4 years last post; experienced Salesmanship and Photography; clever Window-dresser; good-class Dispensing and Family Business; married; abstainer; own Optical equipment; living accommodation preferred. 611/26, Office of this Paper.

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**PART** Time, experienced, Unqualified Assistant (28) requires position Dispensing, Counter in busy London Pharmacy, three-four months; one month. 612/34, Office of this Paper.

**PHARMACIST'S** Son (25), Qualified, seeks Assistancy; having available capital, would entertain view succession or partnership. Dyson, Chemist, Horwich, Lancashire.

**QUALIFIED** Lady Dispenser, 14 years' experience, first-class testimonials, seeks post in or near London. "Phone Dispenser, New Cross 2538.

**QUALIFIED** Lady (26), manageress, desires post as same; Photographic and Window-dressing efficiency; sound references; Scotland preferred. 611/12, Office of this Paper.

**QUALIFIED** Manager or Locum (36); all-round experience; disengaged; London only. Gregory, 50 Grove Lane, Camberwell, S.E.5. "Phone: Rodney 2719.

**QUALIFIED** M.P.S.; middle-aged; capable Manager or will accept Locum work; disengaged. Chambers, 15 Robert Road, Birmingham, 20.

**QUALIFIED** Young Lady desires post; good appearance; quick and accurate Dispenser; excellent references; London or Southern area preferred. 610/2, Office of this Paper.

**QUALIFIED** (22); good experience of Dispensing, Counter and Windows; knowledge of Photography; energetic and reliable; will accept locums or permanency. "Chemist," 46 Bury Old Road, Crumpsall, Manchester.

**QUALIFIED** (25), with all-round experience Dispensing, Counter, Windows and N.H.I., seeks situation London or suburbs; disengaged. 613/10, Office of this Paper.

**QUALIFIED** (44), married; excellent experience and references; London or near; immediate. M.P.S., 64 Approach Road, Margate.

**QUALIFIED** (26) seeks post; used to quick cash trade, Counter, Prescribing, Dispensing; 2 years manager. Chemist, 44 Hill Street, Woolwich.

**UNREGISTERED**; abstainer; 30 years' all-round town and country; go anywhere; temporary or permanent; low salary. 612/20, Office of this Paper.

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**A** REPRESENTATIVE with 15 years' London and suburban connection Toilet, Sundries, Proprietaries, seeks change. P.C.B. 110/8, Office of this Paper.

**E** XPERIENCED Representative, first-class connection with Chemists, Stores, Doctors, desires position Home Counties and South; agency for good Sundry House with wide range of lines considered. 613/12, Office of this Paper.

**PILL-MAKER** (young), 6 years' experience, knowledge of Coating and Tablet Compressing, desires change of employment; anywhere. 611/22, Office of this Paper.

**R** EPRESENTATIVE, prize records, desires position with house of repute; first-class references; also connection. 613/16, Office of this Paper.

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**S** MART Young Qualified Man desirous taking over established connection with reputable Manufacturers or Wholesalers; first-class retail and some travelling experience; Northern England or Southern Scotland; good references. 613/3, Office of this Paper.

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